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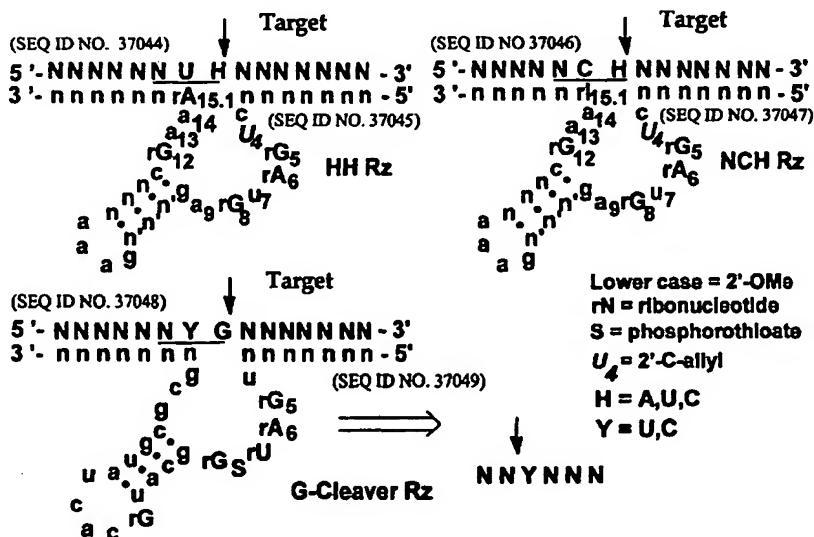
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- (54) Title:** NUCLEIC ACID-BASED TREATMENT OF DISEASES OR CONDITIONS RELATED TO WEST NILE VIRUS INFECTION

Examples of Nuclease Stable Ribozyme Motifs



(57) Abstract: The present invention relates to nucleic acid molecules (e.g., ribozymes, DNazymes, antisense oligonucleotides, triplex forming oligonucleotides, 2,5-A oligonucleotides, decoys) that modulate the expression and/or replication of West Nile Virus (WNV). The present invention also relates to chemical compositions, and methods of treatment of WNV infection and associated diseases, and conditions.



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NUCLEIC ACID-BASED TREATMENT OF DISEASES OR CONDITIONS RELATED TO
WEST NILE VIRUS INFECTION

TECHNICAL FIELD OF INVENTION

This invention relates to compositions, reagents and methods for the treatment of diseases or conditions relating to West Nile Virus (WNV) infection.

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BACKGROUND OF THE INVENTION

The following is a discussion of relevant art, none of which is admitted as prior art to the present invention.

West Nile Virus (WNV) is a Class IV virus, specifically a flavivirus, identified as a member of the Japanese encephalitis virus antigenic complex. WNV is a spherical, enveloped virus containing a positive single-stranded RNA genome. Flaviviridae group also includes such pathogens as hepatitis C virus, Kunjin virus, and viruses responsible for yellow fever, dengue fever, and St. Louis encephalitis. West Nile Virus subtypes are distinguishable by antigenic variations in the envelope (E) protein and by the presence of an N-glycosylation site (Asn-Tyr-Ser) at amino acids 154-156 (Jia, 1999, *Lancet*. 354;1971-2).

The genome of WNV is composed of 10,960 nucleotides. The 5'-terminus of the WNV genome contains a type 1 cap structure that is synthesized by RNA triphosphatase, guanylyltransferase and methyltransferase (Wengler and Wengler, 1993, *Virology*, 197m; 265-273). A conserved 3'-terminal stem loop of the viral genomic RNA has been shown to bind to translation elongation factor-1-alpha prior to replication (Blackwell and Brinton, 1997, *J. Virol.*, 71, 6433-6444). At least nine WNV encoded proteins have been identified, including the non-structural proteins NS 1, NS 2a, NS 2b, NS 3, NS 4b, and NS 5, along with C, M, and E structural proteins. The NS 3 protein has been shown to have RNA triphosphatase activity (Wengler and Wengler, *supra*). The WNV NS 5 protein has been shown to possess RNA-dependent RNA polymerase activity *in vitro* (Steffens *et al.*, 1999, *J. Gen. Virol.*, 80, 2583-2590).

WNV can be transmitted to humans and domestic animals through mosquitoes and migratory birds, that serve as amplifying hosts. Although WNV infection is generally asymptomatic in areas of the world where the virus is endemic, infected humans can incur a mild fever, rash, nausea, headache, disorientation and back pain. More serious complications from WNV infection include hepatitis, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, and death, especially in the very young, sick, or elderly.

Virulence of different WNV strains can vary, and certain characteristics of the WNV can dictate susceptibility to CNS infection. One study of WNV infectivity in mice found decreased neuroinvasiveness in strain variants with glycosylated envelope proteins and among those strains with amino acid substitutions at residue 307 (Chambers *et al.*, 1998, *J. Gen. Virol.* 79:2375). Experimentally infected monkeys have demonstrated persistent neurologic infection (Pogodina *et al.*, 1983, *Arch. Virol.*, 75:71). Furthermore, human subjects who were subjected to WNV as an experimental cancer treatment and who died within approximately four weeks after such treatment showed viral infiltration of the spleen, lymph nodes, liver, and lungs, indicating disseminated infection by WNV in humans (Southam and Moore, 1951, *Am. J. Trop. Med.*, 31:724; Southam and Moore, 1954, *Am. J. Trop. Med. Hyg.*, 3:19).

The WNV incubation period manifests typically from 3 to 15 days, and the diagnosis of WNV has been confirmed by an enzyme immunoassay through IgM and IgG antibody detection (Tsai *et al.*, 1998, *Lancet*, 352:767). WNV has also been diagnosed by reverse transcriptase polymerase chain reaction (rtPCR) testing of CSF (Puri *et al.*, 1994, *Arch. Virol.*, 134:29).

The WNV infection has been reported in Africa, the Middle East, parts of Europe, the Soviet Union, South Asia and Australia (Savage *et al.*, 1999, *Am J Trop Med Hyg.*, 61:600). In one study involving 915 Egyptians, 6 percent of school children and 40 percent of young adults had antibodies to the WNV following a widespread fever outbreak in the general population (Corwin *et al.*, 1993, *Am J Trop Med Hyg.*, 48:776). Epidemics have also been reported in Israel, South Africa and parts of Europe. In a European outbreak in Romania in 1996, more than 500 cases were reported with a mortality rate of nearly 10 percent (Tsai *et al.*, 1998, *Lancet.*, 352:767 and Hubalek *et al.*, 1999, *Emerg Infect Dis.*, 5:643). Clinical manifestations of the virus in these Romanian patients included meningoencephalitis (44 percent), meningitis (40 percent), and encephalitis (16 percent). In addition, the symptoms

included fever (91 percent), headache (77 percent), neck stiffness (57 percent), vomiting (53 percent), confusion (34 percent) and coma (13 percent) (Tsai *et al.*, 1998, *Lancet.*, 532:767). The largest outbreak of the WNV to date occurred in 1974 in South Africa where nearly 3,000 cases were reported (McIntosh *et al.*, 1976, *South African Journal of Science.*, 72:295-300).

Outbreaks of WNV were not very common in the United States until 1999 when the virus caused seven deaths and 62 cases of encephalitis in New York. The outbreak of encephalitis in humans in the New York area in 1999 coincided with the death of several crows due to viscerotropic WNV infection. These avian infections were present in crows as far south as Baltimore (Anderson *et al.*, 1999, *Science.*, 286:2331). Recent reports indicate that WNV is spreading to other areas of the country as well.

Cloned from the human brain by reverse-transcriptase polymerase chain reaction, the genome of the WNV responsible for the 1999 New York outbreak was found as a lineage type I West Nile Virus. This particular strain of West Nile Virus (WNV; WNV-NY 1999) is closely related to strains previously isolated in the Middle East (Jia, 1999, *The Lancet*, 354:1971-1972).

Nearly the same time as the 1999 United States outbreak, an outbreak of meningoencephalitis caused by WNV infection occurred in Russia. This late summer outbreak was responsible for over 40 deaths out of about 1,000 reported cases. Analysis of brain tissue from five victims of this epidemic by reverse transcriptase-polymerase chain reaction confirmed the presence of WNV, as well as other flaviviruses, in each sample (Lvov *et al.*, 2000, *Emerging Infectious Diseases.*, 6:4).

After the outbreak of WNV in the United States in 1999, surveillance programs have detected increased transmission of the virus in birds and mosquitoes. In one recent case a person 78 years of age was hospitalized in Richmond County, New York for viral encephalitis and tested positive for WNV. Immunosorbent assay confirmed the presence of the IgM antibody in cerebrospinal fluid and serum samples of the individual (Novello *et al.*, 2000, *MMWR*, 49,31:714-717).

The elderly are particularly susceptible to encephalitis due to WNV infection. Other risk factors related to exposure to the virus include spending increased amounts of time

outdoors and being in the presence of a flooded areas, both places where increased contact with mosquitoes is likely (Han *et al.*, 1999, *J Infect Dis.*, 179:230).

In an attempt to prevent the spread of WNV through control of larval and adult mosquitoes, mapping, spraying and removal of breeding sites has been initiated in parts of New York and Connecticut (*Morb Mortal Wkly Rep.* 1999; 48:944). In addition, education programs have been suggested to make the public aware of WNV and its risk factors. Despite these efforts, WNV remains a threat due to its mode of transmission. At present, there is no vaccine or other known treatment for WNV infection. Accordingly there remains an unmet need for reagents and methods for the diagnosis of WNV infection. Further, there remains a need for reagents and methods for the treatment of WNV infection.

BRIEF SUMMARY OF THE INVENTION

The invention features novel nucleic acid-based molecules and techniques (e.g., enzymatic nucleic acid molecules (such as ribozymes, DNAzymes or allozymes), antisense nucleic acids, 2-5A antisense chimeras, triplex forming oligonucleotides, antisense nucleic acids containing RNA cleaving chemical groups, dsRNA and decoys) as well as methods for their use to detect and modulate the replication of WNV and WNV gene expression. In particular, enzymatic nucleic acid molecules capable of specifically cleaving WNV RNA are described. Also described are antisense nucleic acid molecules that specifically modulate the replication of WNV and the expression of the WNV genome. Such enzymatic and antisense nucleic acids can be used to diagnose and treat diseases associated with WNV infection, such as pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, and cirrhosis.

The invention features the use of one or more of the nucleic acid-based molecules and techniques independently or in combination to modulate the replication of WNV and/or the expression of the genes encoded by the WNV genome. In one embodiment the invention features the use of nucleic acid-based molecules and techniques to inhibit the function of the West Nile Virus genome (GenBank accession Nos. AF196835, AF260969, AF260968, AF260967, NC_001563, AF206518, and AF202541).

The present invention features a nucleic acid molecule that modulates the replication of the West Nile Virus. In one embodiment, the nucleic acid molecule modulates the expression and/or function of RNA derived from the WNV. In a preferred embodiment, the nucleic acid molecule of the present invention is selected from the group consisting of

enzymatic nucleic acid, antisense nucleic acid, 2',5'-A nucleic acid, triplex forming nucleic acid, and decoy nucleic acid molecules.

In one embodiment, the nucleic acid molecule of the invention (e.g., antisense or enzymatic nucleic acid molecule) comprises between 12 and 100 bases complementary to RNA of the WNV genome. In another embodiment, the nucleic acid molecule comprises between 14 and 24 bases complementary to RNA of the WNV genome. The nucleic acid molecule of the invention can be synthesized either enzymatically or chemically using methods described herein and other methods known in the art.

In yet another embodiment, the nucleic acid molecule of the invention can further comprise at least one sugar modification, nucleic acid base modification, phosphate backbone modification, or a combination thereof. The nucleic acid molecule of the invention can also comprise a cap structure, wherein the cap structure is at the 5'-end or 3'-end, or at both the 5'-end and the 3'-end of the nucleic acid molecule.

In one embodiment of the invention, the nucleic acid molecule is an enzymatic nucleic acid molecule. The enzymatic nucleic acid molecules of the invention are designed to cleave either the plus strand or the minus strand of WNV. The enzymatic nucleic acid molecules are also designed to cleave RNA derived from various genes encoding WNV proteins. The enzymatic nucleic acid of the invention contains one or more binding arms that comprise a sequence or sequences complementary to any sequence of WNV. In another embodiment, the enzymatic nucleic acid of the invention contains one or more binding arms that comprise a sequence or sequences complementary to any sequence(s) of SEQ ID NOs 1-7,372; 16,410-24,320; and 35,592-35,616. Examples of enzymatic nucleic acid molecules of the invention comprise the sequence of SEQ ID NOs 7,373-16,409; 24,321-35,591; or 35,617-35,641.

The enzymatic nucleic acid molecule of the invention can be in a hammerhead (HH), hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, or RNase P nucleic acid configuration. The enzymatic nucleic acid molecule can also be in an Inozyme, G-cleaver, Zinzyme, or an Amberzyme configuration. The enzymatic nucleic acid molecule of the invention can also be a DNAzyme.

In one embodiment, the DNAzyme of the instant invention comprises at least ten 2'-O-methyl modifications. In another embodiment, the DNAzyme further comprises phosphorothioate linkages on at least one of the 5' terminal nucleotides. Said linkages are useful to improve nuclease stability. In another embodiment, the DNAzyme comprises a 3'-end modification (e.g., 3',3'-inverted abasic and/or one or more phosphorothioate modifications). In another embodiment, the DNAzyme comprises at least ten 2'-O-methyl

modifications, phosphorothioate linkages on at least one of the 5' terminal nucleotides, and a 3'-end modification.

In another embodiment, the enzymatic nucleic acid molecule of the invention is a Hammerhead motif comprising at least one sequence complementary to any of the sequences shown as Substrate sequence in Tables III and VIII. In yet another embodiment, the enzymatic nucleic acid molecule of the invention is an Inozyme motif comprising at least one sequence complementary to any of the sequences shown as substrate sequence in Tables IV and IX. In another embodiment, the enzymatic nucleic acid molecule of the invention is a DNAzyme comprising at least one sequence complementary to any of the sequences shown as substrate sequences in Tables VI and XI. In another embodiment, the enzymatic nucleic acid molecule of the invention is a Zinzyme comprising at least one sequence complementary to any of the sequences shown as substrate sequence in Tables V and X. In another embodiment, the enzymatic nucleic acid molecule of the invention is an Amberzyme comprising at least one sequences complementary to any of the sequences shown as substrate sequences in Tables VII and XII.

In one embodiment, the enzymatic nucleic acid molecule contemplated by the instant invention comprises at least five ribose residues, at least ten 2'-*O*-methyl modifications, and a 3'- end modification (e.g., 3',3'-inverted abasic moiety, phosphorothioate, phosphorodithioate). In another embodiment, the enzymatic nucleic acid further comprises phosphorothioate modifications at the 5'-end (for example having 1, 2, 3, 4 or 5 phosphorothioates). In another embodiment the invention features an enzymatic nucleic acid molecule that does not require the presence of a ribonucleotide to be functional, for example, to cleave WNV RNA.

In another aspect of the invention, the nucleic acid molecule of the invention is an antisense nucleic acid molecule. The antisense nucleic acid molecule is designed to modulate either the plus strand or the minus strand of WNV. The antisense nucleic acid molecule are also designed to modulate RNA derived from various genes encoding WNV proteins. The antisense nucleic acid of the invention comprises a sequence complementary to any WNV sequence. For example, in some embodiments, the antisense nucleic acid of the invention comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-7,372; 16,410-24,320; and 35,592-35,616.

In one embodiment, the antisense nucleic acid molecule of the instant invention comprises a phosphorothioate core with both 3' and 5' -end modifications. In one aspect of this embodiment, the 3' and/or 5'- end modification contemplated by the instant invention is a 3',3'-inverted abasic moiety and/or a 5',5'-inverted abasic moiety, respectively.

The invention also provides a method for modulating the replication of WNV in a cell comprising the step of contacting said cell with the nucleic acid molecule of claim 1 under conditions suitable for said down regulation of WNV replication. In addition the invention provides a method for down regulating the replication of WNV in a mammal comprising the step of administering to said infected mammal a nucleic acid of claim 1. In one embodiment of the disclosed methods, the modulation of replication of WNV in a cell or mammal results in the down-regulation of WNV replication in the cell or mammal.

In one embodiment, the invention features a method of modulating WNV activity in a cell, comprising the step of contacting the cell with the nucleic acid molecule of the invention, under conditions suitable for the modulation of WNV activity. In one embodiment, the modulation results in the reduction of WNV activity. In a further embodiment, the invention features a method of treating a patient having a condition associated with the level of WNV, comprising contacting cells of the patient with the nucleic acid molecule of the invention, under conditions suitable for the treatment. In one embodiment, the method of treating a patient having a condition associated with the level of WNV comprises the use of one or more therapies under conditions suitable for the treatment, in conjunction with the nucleic acid molecule.

In another embodiment, the method for treating a patient having a condition associated with the level of WNV comprises administering to the patient a nucleic acid molecule that modulates expression of RNA derived from the WNV genome in conjunction with one or more of other therapies, such as antiviral agents and interferons. In one embodiment of the described method, the WNV RNA expression is down-regulated.

The invention further relates to a method of cleaving WNV RNA, comprising contacting the nucleic acid molecule of the invention with WNV RNA under conditions suitable for the cleavage of WNV RNA. In another embodiment, the method of cleaving WNV RNA is carried out in the presence of a divalent cation. In one embodiment, for example, the divalent cation is Mg^{2+} .

The invention also contemplates a pharmaceutical composition comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. In one embodiment, the invention features a kit for the treatment of a patient having a condition associated with the level of WNV, comprising the nucleic acid molecule of the invention. The invention also features a kit for detecting a level of WNV in a system, comprising the nucleic acid molecule of the invention.

The invention also features an expression vector comprising a nucleic acid sequence encoding one or more nucleic acid molecule (e.g, 1, 2, 3, 4 nucleic acid molecules) that can

be the same or different, of the invention (e.g., enzymatic nucleic acid and/or antisense), in a manner that allows expression of that nucleic acid molecule(s).

The nucleic acid-based molecules of the present invention are useful, alone or in combination with other therapies, for the prevention and/or treatment of diseases and conditions associated with WNV infection, such as pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and any other diseases or conditions that are related to or respond to the levels of WNV in a cell or tissue.

The nucleic acid-based molecules of the invention can be added directly, or can be complexed with a delivery agent, such as a lipid, phospholipid, cationic lipid, packaged within a liposome(s), or otherwise delivered to target cells or tissues using the methods described herein and known in the art. The nucleic acid or nucleic acid complexes can be locally administered to relevant tissues *ex vivo* or *in vivo* through injection, infusion pump or stent, with or without their incorporation in biopolymers. In one embodiment, the enzymatic nucleic acid molecule comprises one or more sequences that are complementary to the substrate sequences in **Tables III to XIII**. Examples of the inventive enzymatic nucleic acid molecules comprise sequences which are also shown in **Tables III to XIII**.

In one embodiment, the invention features a method of administering to a cell, for example a mammalian cell or human cell, an enzymatic nucleic acid molecule of the invention comprising contacting the cell with the enzymatic nucleic acid molecule under conditions suitable for administration. The method of administration can be in the presence of a delivery reagent, for example, a lipid, cationic lipid, phospholipid, or liposome. In another embodiment, the invention features a method of administering to a cell an expression vector comprising a nucleic acid sequence encoding one or more nucleic acid molecules of the invention comprising contacting the cell with said vector under conditions suitable for administration.

Other features and advantages of the invention will be apparent from the following description of the preferred embodiments thereof, and from the claims.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows examples of chemically stabilized enzymatic nucleic acid motifs. "HH" represents hammerhead enzymatic nucleic acid motif (Usman *et al.*, 1996, *Curr. Op. Struct. Bio.*, 1, 527); "NCH" represents the NCH enzymatic nucleic acid motif (Ludwig & Sproat, International PCT Publication No. WO 98/58058); "G-Cleaver" represents G-cleaver

enzymatic nucleic acid motif (Kore *et al.*, 1998, *Nucleic Acids Research* 26, 4116-4120). "N" or "n" represent independently a nucleotide that can be same or different and have complementarity to each other; "rI", represents ribo-Inosine nucleotide; arrow indicates the site of cleavage within the target. Position 4 of the HH Rz and the NCH Rz is shown as having 2'-C-allyl modification, but those skilled in the art will recognize that this position can be modified with other modifications well known in the art, so long as such modifications do not significantly inhibit the activity of the enzymatic nucleic acid.

Figure 2 shows an example of the Amberzyme enzymatic nucleic acid molecule motif that is chemically stabilized (see for example Beigelman *et al.*, International PCT publication No. WO 99/55857). The Amberzyme motif is a class of enzymatic nucleic molecules that do not require the presence of a ribonucleotide (2'-OH) group for its activity.

Figure 3 shows an example of the Zinzyme A enzymatic nucleic acid molecule motif that is chemically stabilized (see for example Beigelman *et al.*, Beigelman *et al.*, International PCT publication No. WO 99/55857). The Zinzyme motif is a class of enzymatic nucleic molecules that do not require the presence of a ribonucleotide (2'-OH) group for its activity.

Figure 4 shows an example of a DNAzyme motif (*e.g.*, "10-23") described by Santoro *et al.*, 1997, *PNAS*, 94, 4262.

DETAILED DESCRIPTION OF THE INVENTION

Due to sequence variability of the WNV genome, it is preferable to target the conserved regions of the WNV genome with the nucleic acid molecules of the instant invention. Accordingly, the present invention describes nucleic acid molecules targeting the conserved regions of the WNV genome. Conserved regions of the WNV genome include the 39-UTR, E, NS3, and NS5 regions. Nucleic acid molecules designed against these and other conserved regions of various WNV isolates enable, for example the down regulation of WNV replication in diverse patient populations, as well as ensure the effectiveness of the nucleic acid molecules against WNV quasi species that evolve due to mutations in the non-conserved regions of the WNV genome. For instance, a single nucleic acid molecule (such as an enzymatic nucleic acid molecule) can be targeted to inhibit all known strains and variants of WNV by targeting the nucleic acid to a conserved sequence present in all WNV genomes.

The present invention relates to a nucleic acid molecule that modulates the replication of WNV. For example, the nucleic acid molecule can be an enzymatic nucleic acid, an allozyme, an antisense nucleic acid, a 2', 5'-A nucleic acid, triplex forming nucleic acid, dsRNA, siRNA or decoy nucleic acid molecule.

In one embodiment of the present invention, a nucleic acid molecule of the instant invention can be between 12 and 100 nucleotides in length. Exemplary enzymatic nucleic acid molecules of the invention are shown in **Table III-XIII**. For example, enzymatic nucleic acid molecules of the invention can be between 15 and 50 nucleotides in length, and in another embodiment between 25 and 40 nucleotides in length, *e.g.*, 34, 36, or 38 nucleotides in length (for example see Jarvis *et al.*, 1996, *J. Biol. Chem.*, 271, 29107-29112). Exemplary DNAzymes of the invention can be between 15 and 40 nucleotides in length, and in one embodiment, between 25 and 35 nucleotides in length, *e.g.*, 29, 30, 31, or 32 nucleotides in length (see, *e.g.*, Santoro *et al.*, 1998, *Biochemistry*, 37, 13330-13342; Chartrand *et al.*, 1995, *Nucleic Acids Research*, 23, 4092-4096). Exemplary antisense molecules of the invention can be between 15 and 75 nucleotides in length, and in one embodiment between 20 and 35 nucleotides in length, *e.g.*, 25, 26, 27, or 28 nucleotides in length (see for example Woolf *et al.*, 1992, *PNAS*, 89, 7305-7309; Milner *et al.*, 1997, *Nature Biotechnology*, 15, 537-541). Exemplary triplex forming oligonucleotide molecules of the invention are between 10 and 40 nucleotides in length, and in one embodiment are between 12 and 25 nucleotides in length, *e.g.*, 18, 19, 20, or 21 nucleotides in length (see for example Maher *et al.*, 1990, *Biochemistry*, 29, 8820-8826; Strobel and Dervan, 1990, *Science*, 249, 73-75). Those skilled in the art will recognize that all that is required is for the nucleic acid molecule to be of length and conformation sufficient and suitable for the nucleic acid molecule to catalyze a reaction contemplated herein. The length of the nucleic acid molecules of the instant invention are not limiting within the general limits stated.

The invention relates to a class of nucleic acid-based molecules that exhibit a high degree of specificity for the RNA of a desired target, such as WNV RNA. In one embodiment, the enzymatic nucleic acid molecule is targeted to a highly conserved sequence region of RNA encoding the WNV genome and/or proteins, such that specific treatment of a disease or condition associated with WNV is provided using one or more nucleic acid molecules of the invention. In addition, the nucleic acid based molecule can be targeted to RNAs that share homology with the WNV gene. The nucleic acid molecules of the invention can be delivered exogenously to specific tissue or cellular targets as required. Alternatively, the nucleic acid molecules (*e.g.*, enzymatic nucleic acids and antisense) can be expressed from DNA and/or RNA vectors that are delivered to specific cells.

In yet another embodiment, the invention features antisense nucleic acid molecules, dsRNA, and 2-5A chimera including sequences complementary to the substrate sequences shown in **Tables III to XIII**. Such nucleic acid molecules can include sequences as shown for the binding arms of the enzymatic nucleic acid molecules in **Tables III to XIII**. Similarly, triplex molecules targeted to the corresponding DNA target regions, and containing the DNA equivalent of a target sequence or a sequence complementary to the specified target

(substrate) sequence are provided. Typically, antisense molecules are complementary to a target sequence along a single contiguous sequence of the antisense molecule. However, in certain embodiments, the antisense molecule can bind to substrate such that the substrate molecule forms a loop, and/or the antisense molecule binds such that the antisense molecule forms a loop. Thus, the antisense molecule can be complementary to two or more non-contiguous substrate sequences, or two or more non-contiguous sequence portions of an antisense molecule can be complementary to a target sequence, or both.

The nucleic acid molecules of the present invention can be expressed from transcription units inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. Enzymatic nucleic acid or antisense expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. In one embodiment, the recombinant vectors capable of expressing the enzymatic nucleic acids or antisense are delivered as described herein, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of enzymatic nucleic acids or antisense. Such vectors can be repeatedly administered as necessary. Once expressed, the enzymatic nucleic acids or antisense bind to the target RNA and modulate its function or expression. Delivery of enzymatic nucleic acid or antisense expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from the patient followed by reintroduction into the patient, or by any other means that would allow for introduction into the desired target cell. Antisense DNA or DNAzymes can be expressed endogenously via the use of a single stranded DNA intracellular expression vector.

The nucleic acid molecules of the instant invention, individually, or in combination or in conjunction with other drugs, can be used to treat diseases or conditions discussed herein. For example, to treat a disease or condition associated with the levels of WNV, the nucleic acid molecules can be administered to a patient or can be administered to other appropriate cells evident to those skilled in the art, individually or in combination with one or more drugs under conditions suitable for the treatment.

In a further embodiment, the described molecules, such as antisense or enzymatic nucleic acids, can be used in combination with other known treatments to treat conditions. For example, the described molecules can be used in combination with one or more known therapeutic agents to treat WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states associated with WNV infection.

In another embodiment, the invention features nucleic acid-based inhibitors (e.g., enzymatic nucleic acid molecules, antisense nucleic acids, 2-5A antisense chimeras, triplex

forming oligonucleotides, antisense nucleic acids containing RNA cleaving chemical groups) and methods for their use to down regulate or inhibit the expression of genes (*e.g.*, WNV) capable of progression and/or maintenance of WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states; associated with WNV infection. Such genes can be cellular genes that are involved, and/or essential for the replication and/or propagation of WNV. Nucleic acid molecules targeting such cellular gene expression is useful in the modulation of WNV replication and/or propagation.

By "modulate" is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more WNV protein or WNV protein subunits, or activity of one or more WNV protein or WNV protein subunits is up-regulated or down-regulated, such that the expression, level, or activity is greater than or less than that observed in the absence of a nucleic acid molecule of the invention.

By "inhibit", "down-regulate", or "reduce", it is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins or protein subunits, or activity of one or more proteins or protein subunits, such as WNV proteins or WNV subunit(s), is reduced below that observed in the absence of the nucleic acid molecules of the invention. In one embodiment, inhibition, down-regulation or reduction with an enzymatic nucleic acid molecule is below that level observed in the presence of an enzymatically inactive or attenuated molecule that is able to bind to the same site on the target RNA molecule, but is unable to cleave that RNA molecule. In another embodiment, inhibition, down-regulation, or reduction with antisense oligonucleotides is below that level observed in the presence of, for example, an oligonucleotide with scrambled sequence or with mismatches. In another embodiment, inhibition, down-regulation, or reduction of WNV with a nucleic acid molecule of the instant invention is greater in the presence of the nucleic acid molecule than in its absence.

By "up-regulate" is meant that the expression of a gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins, protein subunits, or activity of one or more proteins or protein subunits, such as WNV proteins or WNV subunits, is greater than that observed in the absence of the nucleic acid molecules of the invention. For example, the expression of a gene, such as a WNV gene, can be increased in order to treat, prevent, ameliorate, or modulate a pathological condition caused or exacerbated by an absence or low level of gene expression.

By "enzymatic nucleic acid molecule" it is meant a nucleic acid molecule that has complementarity in a substrate binding region to a specified gene target, and also has an enzymatic activity that is active to specifically cleave target a RNA molecule. That is, the

enzymatic nucleic acid molecule is able to intermolecularly cleave a RNA molecule and thereby inactivate a target RNA molecule. These complementary regions allow sufficient hybridization of an enzymatic nucleic acid molecule to a target RNA molecule and thus permit cleavage. One hundred percent complementarity is preferred, but complementarity as low as 50-75% can also be useful in this invention (see for example Werner and Uhlenbeck, 1995, *Nucleic Acids Research*, 23, 2092-2096; Hammann *et al.*, 1999, *Antisense and Nucleic Acid Drug Dev.*, 9, 25-31). The nucleic acids can be modified at the base, sugar, and/or phosphate groups. The term enzymatic nucleic acid is used interchangeably with phrases such as ribozymes, catalytic RNA, enzymatic RNA, catalytic DNA, aptazyme or aptamer-binding ribozyme, regulatable ribozyme, catalytic oligonucleotides, nucleozyme, DNAzyme, RNA enzyme, endoribonuclease, endonuclease, minizyme, leadzyme, oligozyme or DNA enzyme. All of these terminologies describe nucleic acid molecules with enzymatic activity. The specific enzymatic nucleic acid molecules described in the instant application are not limiting in the invention and those skilled in the art will recognize that all that is important in an enzymatic nucleic acid molecule of this invention is that it has a specific substrate binding site that is complementary to one or more of the target nucleic acid regions, and that it have nucleotide sequences within or surrounding that substrate binding site which impart a nucleic acid cleaving and/or ligation activity to the molecule (Cech *et al.*, U.S. Patent No. 4,987,071; Cech *et al.*, 1988, 260 *JAMA* 3030).

By "nucleic acid molecule" as used herein is meant a molecule comprising nucleotides. The nucleic acid can be single, double, or multiple stranded and can comprise modified or unmodified nucleotides or non-nucleotides or various mixtures and combinations thereof.

By "enzymatic portion" or "catalytic domain" is meant that portion/region of the enzymatic nucleic acid molecule essential for cleavage of a nucleic acid substrate (for example, see **Figures 1-4**).

By "substrate binding arm" or "substrate binding domain" is meant that portion/region of a enzymatic nucleic acid that is able to interact, for example, via complementarity (*i.e.*, able to base-pair with), with a portion of its substrate. Such complementarity can be 100%, but can be less if desired. For example, as few as 10 bases out of 14 can be base-paired (see for example Werner and Uhlenbeck, 1995, *Nucleic Acids Research*, 23, 2092-2096; Hammann *et al.*, 1999, *Antisense and Nucleic Acid Drug Dev.*, 9, 25-31). Examples of such arms are shown generally in **Figures 1-4**. That is, these arms contain sequences within a enzymatic nucleic acid that are intended to bring enzymatic nucleic acid and target RNA together through complementary base-pairing interactions. The enzymatic nucleic acid of the invention can have binding arms that are contiguous or non-contiguous and can be of varying lengths. The length of the binding arm(s) can be greater than or equal to four nucleotides and

of sufficient length to stably interact with a target RNA; in one embodiment they can be 12-100 nucleotides; in another embodiment they can be 14-24 nucleotides long (see for example Werner and Uhlenbeck, *supra*; Hamman *et al.*, *supra*; Hampel *et al.*, EP0360257; Berzal-Herranz *et al.*, 1993, *EMBO J.*, 12, 2567-73) or between 8 and 14 nucleotides long. If two binding arms are chosen, the design is such that the length of the binding arms are symmetrical (*i.e.*, each of the binding arms is of the same length; *e.g.*, four and four, five and five nucleotides, or six and six nucleotides, or seven and seven nucleotides long) or asymmetrical (*i.e.*, the binding arms are of different length; *e.g.*, three and five, six and three nucleotides; three and six nucleotides long; four and five nucleotides long; four and six nucleotides long; four and seven nucleotides long; and the like).

By "Inozyme" or "NCH" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described as NCH Rz in Figure 2. Inozymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet NCH/, where N is a nucleotide, C is cytidine and H is adenosine, uridine or cytidine, and / represents the cleavage site. H is used interchangeably with X. Inozymes can also possess endonuclease activity to cleave RNA substrates having a cleavage triplet NCN/, where N is a nucleotide, C is cytidine, and / represents the cleavage site. "T" in Figure 2 represents an Inosine nucleotide, including a ribo-Inosine or xylo-Inosine nucleoside.

By "G-cleaver" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described as G-cleaver Rz in Figure 2. G-cleavers possess endonuclease activity to cleave RNA substrates having a cleavage triplet NYN/, where N is a nucleotide, Y is uridine or cytidine and / represents the cleavage site. G-cleavers can be chemically modified as is generally shown in Figure 2.

By "zinzyme" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described in Figure 4. Zinzymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet including but not limited to, YG/Y, where Y is uridine or cytidine, and G is guanosine and / represents the cleavage site. Zinzymes can be chemically modified to increase nuclease stability through substitutions as are generally shown in Figure 4, including substituting 2'-O-methyl guanosine nucleotides for guanosine nucleotides. In addition, differing nucleotide and/or non-nucleotide linkers can be used to substitute the 5'-gaaa-2' loop shown in the figure. Zinzymes represent a non-limiting example of an enzymatic nucleic acid molecule that does not require a ribonucleotide (2'-OH) group within its own nucleic acid sequence for activity.

By "amberzyme" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described in Figure 3. Amberzymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet NG/N, where N is a nucleotide, G

is guanosine, and / represents the cleavage site. Amberzymes can be chemically modified to increase nuclease stability through substitutions as are generally shown in Figure 3. In addition, differing nucleoside and/or non-nucleoside linkers can be used to substitute the 5'-gaaa-3' loops shown in the figure. Amberzymes represent a non-limiting example of an enzymatic nucleic acid molecule that does not require a ribonucleotide (2'-OH) group within its own nucleic acid sequence for activity.

By 'DNAzyme' is meant, an enzymatic nucleic acid molecule that does not require the presence of a 2'-OH group within its own nucleic acid sequence for activity. In particular embodiments, the enzymatic nucleic acid molecule can have an attached linker or linkers or other attached or associated groups, moieties, or chains containing one or more nucleotides with 2'-OH groups. DNAzymes can be synthesized chemically or expressed endogenously *in vivo*, by means of a single stranded DNA vector or equivalent thereof. An example of a DNAzyme is shown in Figure 5 and is generally reviewed in Usman *et al.*, US patent No., 6,159,714; Chartrand *et al.*, 1995, *NAR* 23, 4092; Breaker *et al.*, 1995, *Chem. Bio.* 2, 655; Santoro *et al.*, 1997, *PNAS* 94, 4262; Breaker, 1999, *Nature Biotechnology*, 17, 422-423; and Santoro *et al.*, 2000, *J. Am. Chem. Soc.*, 122, 2433-39. The "10-23" DNAzyme motif is one particular type of DNAzyme that was evolved using *in vitro* selection (see Santoro *et al.*, *supra*). Additional DNAzyme motifs can be selected for using techniques similar to those described in these references, and hence, are within the scope of the present invention.

By "sufficient length" is meant an oligonucleotide of greater than or equal to 3 nucleotides in length and long enough to provide the intended function (such as binding) under the expected condition. For example, for binding arms of enzymatic nucleic acid "sufficient length" means that the binding arm sequence is long enough to provide stable binding to a target site under the expected reaction conditions and environment. The binding arms are not so long as to prevent useful turnover of the nucleic acid molecule.

By "stably interact" is meant interaction of the oligonucleotides with target nucleic acid (*e.g.*, by forming hydrogen bonds with complementary nucleotides in the target under physiological conditions) that is sufficient for the intended purpose (*e.g.*, cleavage of target RNA by an enzyme).

By RNA "equivalent" to WNV is meant to include any naturally occurring RNA molecule having a degree of homology (partial or complete, for example 70% to 100% homology) with an RNA molecule encoding a WNV protein or an RNA encoding a protein with similar function as a WNV protein in various organisms, including, for example, human, birds, rodent, primate, and other organisms and parasites. The equivalent RNA sequence can include in addition to the coding region, regions such as 5'-untranslated region, 3'-

untranslated region, introns, intron-exon junction and the like. By "homology" or "degree of homology" is meant the degree to which the nucleotide sequence of two or more nucleic acid molecules that are partially or completely identical.

By "antisense nucleic acid", it is meant a non-enzymatic nucleic acid molecule that binds to target RNA by means of RNA-RNA or RNA-DNA or RNA-PNA (protein nucleic acid; Egholm *et al.*, 1993 *Nature* 365, 566) interactions and alters the activity of the target RNA (for a review, see Stein and Cheng, 1993 *Science* 261, 1004 and Woolf *et al.*, US patent No. 5,849,902). Typically, antisense molecules are complementary to a target sequence along a single contiguous sequence of the antisense molecule. However, in certain embodiments, an antisense molecule can bind to substrate such that the substrate molecule forms a loop, and/or an antisense molecule can bind such that the antisense molecule forms a loop. Thus, the antisense molecule can be complementary to two or more non-contiguous substrate sequences or two or more non-contiguous sequence portions of an antisense molecule can be complementary to a target sequence, or both. For a review of current antisense strategies, see Schmajuk *et al.*, 1999, *J. Biol. Chem.*, 274, 21783-21789, Delihis *et al.*, 1997, *Nature*, 15, 751-753, Stein *et al.*, 1997, *Antisense N. A. Drug Dev.*, 7, 151, Crooke, 2000, *Methods Enzymol.*, 313, 3-45; Crooke, 1998, *Biotech. Genet. Eng. Rev.*, 15, 121-157, Crooke, 1997, *Ad. Pharmacol.*, 40, 1-49. In addition, antisense DNA can be used to target RNA by means of DNA-RNA interactions, thereby activating RNase H, that digests the target RNA in the duplex. The antisense oligonucleotides can comprise one or more RNase H activating region that is capable of activating RNase H cleavage of a target RNA. Antisense DNA can be synthesized chemically or expressed via the use of a single stranded DNA expression vector or equivalent thereof.

By "RNase H activating region" is meant a region (generally greater than or equal to 4-25 nucleotides in length, and in one embodiment from 5-11 nucleotides in length) of a nucleic acid molecule capable of binding to a target RNA to form a non-covalent complex that is recognized by cellular RNase H enzyme (see for example Arrow *et al.*, US 5,849,902; Arrow *et al.*, US 5,989,912). The RNase H enzyme binds to the nucleic acid molecule-target RNA complex and cleaves the target RNA sequence. The RNase H activating region comprises, for example, phosphodiester, phosphorothioate (for example, at least four of the nucleotides are phosphorothioate substitutions; and in another embodiment, 4-11 of the nucleotides are phosphorothioate substitutions); phosphorodithioate, 5'-thiophosphate, or methylphosphonate backbone chemistry or a combination thereof. In addition to one or more backbone chemistries described above, the RNase H activating region can also comprise a variety of sugar chemistries. For example, the RNase H activating region can comprise deoxyribose, arabino, fluoroarabino or a combination thereof, nucleotide sugar chemistry. Those skilled in the art will recognize that the foregoing are non-limiting examples and that

any combination of phosphate, sugar and base chemistry of a nucleic acid that supports the activity of RNase H enzyme is within the scope of the definition of the RNase H activating region and the instant invention.

By "2-5A antisense chimera" is meant an antisense oligonucleotide containing a 5'-phosphorylated 2'-5'-linked adenylyate residue. These chimeras bind to target RNA in a sequence-specific manner and activate a cellular 2-5A-dependent ribonuclease that, in turn, cleaves the target RNA (Torrence *et al.*, 1993 *Proc. Natl. Acad. Sci. USA* 90, 1300; Silverman *et al.*, 2000, *Methods Enzymol.*, 313, 522-533; Player and Torrence, 1998, *Pharmacol. Ther.*, 78, 55-113).

By "triplex forming oligonucleotides" is meant an oligonucleotide that can bind to a double-stranded DNA in a sequence-specific manner to form a triple-strand helix. Formation of such triple helix structure has been shown to inhibit transcription of the targeted gene (Duval-Valentin *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 504; Fox, 2000, *Curr. Med. Chem.*, 7, 17-37; Praseuth *et al.*, 2000, *Biochim. Biophys. Acta*, 1489, 181-206).

By "gene" it is meant a nucleic acid that encodes an RNA, for example, nucleic acid sequences including, but not limited to, structural genes encoding a polypeptide.

By "WNV proteins" is meant, a protein or a mutant protein derivative thereof, comprising a protein/peptide encoded by WNV RNA.

"Complementarity" refers to the ability of a nucleic acid to form hydrogen bond(s) with another RNA molecule by either traditional Watson-Crick or other non-traditional types. In reference to the nucleic molecules of the present invention, the binding free energy for a nucleic acid molecule with its target or complementary sequence is sufficient to allow the relevant function of the nucleic acid to proceed, e.g., enzymatic nucleic acid cleavage, antisense or triple helix inhibition. Determination of binding free energies for nucleic acid molecules is well known in the art (see, e.g., Turner *et al.*, 1987, *CSH Symp. Quant. Biol.* LII pp.123-133; Frier *et al.*, 1986, *Proc. Nat. Acad. Sci. USA* 83:9373-9377; Turner *et al.*, 1987, *J. Am. Chem. Soc.* 109:3783-3785). A percent complementarity indicates the percentage of contiguous residues in a nucleic acid molecule that can form hydrogen bonds (e.g., Watson-Crick base pairing) with a second nucleic acid sequence (e.g., 5, 6, 7, 8, 9, 10 out of 10 being 50%, 60%, 70%, 80%, 90%, and 100% complementary). "Perfectly complementary" means that all the contiguous residues of a nucleic acid sequence will hydrogen bond with the same number of contiguous residues in a second nucleic acid sequence.

By "RNA" is meant a molecule comprising at least one ribonucleotide residue. By "ribonucleotide" or "2'-OH" is meant a nucleotide with a hydroxyl group at the 2' position of a β -D-ribo-furanose moiety.

By "decoy RNA" is meant a RNA molecule that mimics the natural binding domain for a ligand. The decoy RNA therefore competes with natural binding target for the binding of a specific ligand. For example, it has been shown that over-expression of HIV trans-activation response (TAR) RNA can act as a "decoy" and efficiently binds HIV tat protein, thereby preventing it from binding to TAR sequences encoded in the HIV RNA (Sullenger et al., 1990, *Cell*, 63, 601-608). This is but a specific example and those in the art will recognize that other embodiments can be readily generated using techniques generally known in the art, see for example Gold et al., 1995, *Annu. Rev. Biochem.*, 64, 763; Brody and Gold, 2000, *J. Biotechnol.*, 74, 5; Sun, 2000, *Curr. Opin. Mol. Ther.*, 2, 100; Kusser, 2000, *J. Biotechnol.*, 74, 27; Hermann and Patel, 2000, *Science*, 287, 820; and Jayasena, 1999, *Clinical Chemistry*, 45, 1628.

The term "double stranded RNA" or "dsRNA" as used herein refers to a double stranded RNA molecule capable of RNA interference, including short interfering RNA "siRNA" (see, e.g., Bass, 2001, *Nature*, 411, 428-429; Elbashir et al., 2001, *Nature*, 411, 494-498).

The term "allozyme" as used herein refers to an allosteric enzymatic nucleic acid molecule, see, e.g., George et al., US Patent Nos. 5,834,186 and 5,741,679, Shih et al., US Patent No. 5,589,332, Nathan et al., US Patent No. 5,871,914, Nathan and Ellington, International PCT publication No. WO 00/24931, Breaker et al., International PCT Publication Nos. WO 00/26226 and 98/27104, and Sullenger et al., International PCT publication No. WO 99/29842. The term "2-5A chimera" as used herein refers to an oligonucleotide containing a 5'-phosphorylated 2'-5'-linked adenylate residue. These chimeras bind to target RNA in a sequence-specific manner and activate a cellular 2-5A-dependent ribonuclease which, in turn, cleaves the target RNA (Torrence et al., 1993 *Proc. Natl. Acad. Sci. USA* 90, 1300; Silverman et al., 2000, *Methods Enzymol.*, 313, 522-533; Player and Torrence, 1998, *Pharmacol. Ther.*, 78, 55-113).

The term "triplex forming oligonucleotides" as used herein refers to an oligonucleotide that can bind to a double-stranded DNA in a sequence-specific manner to form a triple-strand helix. Formation of such triple helix structure has been shown to inhibit transcription of the targeted gene (Duval-Valentin et al., 1992 *Proc. Natl. Acad. Sci. USA* 89, 504; Fox, 2000, *Curr. Med. Chem.*, 7, 17-37; Praseuth et al., 2000, *Biochim. Biophys. Acta*, 1489, 181-206).

By "vectors" is meant any nucleic acid and/or viral-based molecule used to deliver a desired nucleic acid.

By "patient" is meant an organism that is a donor or recipient of explanted cells or the cells themselves. "Patient" also refers to an organism to that the nucleic acid molecules of the

invention can be administered. In one embodiment, a patient can be a mammal or mammalian cells. In another embodiment, a patient is a human or human cells.

By "enhanced enzymatic activity" is meant to include activity measured *in vitro* and/or *in vivo* where the activity is a reflection of both the catalytic activity and the stability of the nucleic acid molecules of the invention. In this invention, the product of these activities can be increased *in vitro* and/or *in vivo* compared to an all RNA enzymatic nucleic acid or an all DNA enzyme. In some cases, the activity or stability of the nucleic acid molecule can be decreased (i.e., less than ten-fold), but the overall activity of the nucleic acid molecule is enhanced, *in vitro* and/or *in vivo*.

By "cap structure" is meant chemical modifications that have been incorporated at either terminus of the oligonucleotide (see for example Wincott *et al.*, WO 97/26270, incorporated by reference herein). These terminal modifications protect the nucleic acid molecule from exonuclease degradation, and can help in delivery and/or localization within a cell. The cap can be present at the 5'-terminus (5'-cap) or at the 3'-terminus (3'-cap) or can be present on both terminus. In non-limiting examples, the 5'-cap is selected from the group consisting of inverted abasic residue (moiety), 4',5'-methylene nucleotide; 1-(beta-D-erythrofuransyl) nucleotide, 4'-thio nucleotide, carbocyclic nucleotide; 1,5-anhydrohexitol nucleotide; L-nucleotides; alpha-nucleotides; modified base nucleotide; phosphorodithioate linkage; *threo*-pentofuransyl nucleotide; acyclic 3',4'-seco nucleotide; acyclic 3,4-dihydroxybutyl nucleotide; acyclic 3,5-dihydroxypentyl nucleotide, 3'-3'-inverted nucleotide moiety; 3'-3'-inverted abasic moiety; 3'-2'-inverted nucleotide moiety; 3'-2'-inverted abasic moiety; 1,4-butanediol phosphate; 3'-phosphoramidate; hexylphosphate; aminohexyl phosphate; 3'-phosphate; 3'-phosphorothioate; phosphorodithioate; or bridging or non-bridging methylphosphonate moiety (for more details see Wincott *et al.*, International PCT publication No. WO 97/26270, incorporated by reference herein). In yet another preferred embodiment the 3'-cap is selected from a group comprising, 4',5'-methylene nucleotide; 1-(beta-D-erythrofuransyl) nucleotide; 4'-thio nucleotide, carbocyclic nucleotide; 5'-amino-alkyl phosphate; 1,3-diamino-2-propyl phosphate, 3-aminopropyl phosphate; 6-aminohexyl phosphate; 1,2-aminododecyl phosphate; hydroxypropyl phosphate; 1,5-anhydrohexitol nucleotide; L-nucleotide; alpha-nucleotide; modified base nucleotide; phosphorodithioate; *threo*-pentofuransyl nucleotide; acyclic 3',4'-seco nucleotide; 3,4-dihydroxybutyl nucleotide; 3,5-dihydroxypentyl nucleotide, 5'-5'-inverted nucleotide moiety; 5'-5'-inverted abasic moiety; 5'-phosphoramidate; 5'-phosphorothioate; 1,4-butanediol phosphate; 5'-amino; bridging

and/or non-bridging 5'-phosphoramidate, phosphorothioate and/or phosphorodithioate, bridging or non bridging methylphosphonate and 5'-mercapto moieties (see Beaucage and Iyer, 1993, *Tetrahedron* 49, 1925; incorporated by reference herein).

An "alkyl" group refers to a saturated aliphatic hydrocarbon, including straight-chain, branched-chain, and cyclic alkyl groups. The alkyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention, the alkyl group is a lower alkyl of from 1 to 7 carbons. In another embodiment the alkyl group is 1 to 4 carbons. The alkyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be hydroxyl, cyano, alkoxy, =O, =S, NO₂ or N(CH₃)₂, amino, or SH. The term also includes alkenyl groups which are unsaturated hydrocarbon groups containing at least one carbon-carbon double bond, including straight-chain, branched-chain, and cyclic groups. The alkenyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention the alkenyl group can be a lower alkenyl of from 1 to 7 carbons. In another embodiment the alkenyl group can be 1 to 4 carbons. The alkenyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be, for example, hydroxyl, cyano, alkoxy, =O, =S, NO₂, halogen, N(CH₃)₂, amino, or SH. The term "alkyl" also includes alkynyl groups which have an unsaturated hydrocarbon group containing at least one carbon-carbon triple bond, including straight-chain, branched-chain, and cyclic groups. The alkynyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention, the alkynyl group is a lower alkynyl of from 1 to 7 carbons. In another embodiment of the invention, the alkynyl group is 1 to 4 carbons. The alkynyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be, for example, hydroxyl, cyano, alkoxy, =O, =S, NO₂ or N(CH₃)₂, amino or SH.

Such alkyl groups can also include aryl, alkylaryl, carbocyclic aryl, heterocyclic aryl, amide and ester groups. An "aryl" group refers to an aromatic group that has at least one ring having a conjugated p electron system and includes carbocyclic aryl, heterocyclic aryl and biaryl groups, all of that can be optionally substituted. The preferred substituent(s) of aryl groups are halogen, trihalomethyl, hydroxyl, SH, OH, cyano, alkoxy, alkyl, alkenyl, alkynyl, and amino groups. An "alkylaryl" group refers to an alkyl group (as described above) covalently joined to an aryl group (as described above). Carbocyclic aryl groups are groups wherein the ring atoms on the aromatic ring are all carbon atoms. The carbon atoms are optionally substituted. Heterocyclic aryl groups are groups having from 1 to 3 heteroatoms as ring atoms in the aromatic ring and the remainder of the ring atoms are carbon atoms. Suitable heteroatoms include oxygen, sulfur, and nitrogen, and include furanyl, thienyl, pyridyl, pyrrolyl, N-lower alkyl pyrrolo, pyrimidyl, pyrazinyl, imidazolyl and the like, all optionally substituted. An "amide" refers to an -C(O)-NH-R, where R is either alkyl, aryl,

alkylaryl or hydrogen. An "ester" refers to an $-C(O)-OR'$, where R is either alkyl, aryl, alkylaryl or hydrogen.

By "nucleotide" is meant a heterocyclic nitrogenous base in N-glycosidic linkage with a phosphorylated sugar. Nucleotides are recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleotide sugar moiety. Nucleotides generally comprise a base, sugar and a phosphate group. The nucleotides can be unmodified or modified at the sugar, phosphate and/or base moiety, (also referred to interchangeably as nucleotide analogs, modified nucleotides, non-natural nucleotides, non-standard nucleotides and other; see for example, Usman and McSwiggen, *supra*; Eckstein *et al.*, International PCT Publication No. WO 92/07065; Usman *et al.*, International PCT Publication No. WO 93/15187; Uhlman & Peyman, *supra* all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach *et al.*, 1994, *Nucleic Acids Res.* 22, 2183. Some of the non-limiting examples of chemically modified and other natural nucleic acid bases that can be introduced into nucleic acids include, for example, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6-methyluridine), propyne, quesosine, 2-thiouridine, 4-thiouridine, wybutosine, wybutoxosine, 4-acetylcytidine, 5-(carboxyhydroxymethyl)uridine, 5'-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluridine, beta-D-galactosylqueosine, 1-methyladenosine, 1-methylinosine, 2,2-dimethylguanosine, 3-methylcytidine, 2-methyladenosine, 2-methylguanosine, N6-methyladenosine, 7-methylguanosine, 5-methoxyaminomethyl-2-thiouridine, 5-methylaminomethyluridine, 5-methylcarbonylmethyluridine, 5-methyloxuridine, 5-methyl-2-thiouridine, 2-methylthio-N6-isopentenyladenosine, beta-D-mannosylqueosine, uridine-5-oxyacetic acid, 2-thiocytidine, threonine derivatives and others (Burgin *et al.*, 1996, *Biochemistry*, 35, 14090; Uhlman & Peyman, *supra*). By "modified bases" in this aspect is meant nucleotide bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents; such bases can be used at any position, for example, within the catalytic core of an enzymatic nucleic acid molecule and/or in the substrate-binding regions of the nucleic acid molecule.

By "nucleoside" is meant a heterocyclic nitrogenous base in N-glycosidic linkage with a sugar. Nucleosides are recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleoside sugar moiety. Nucleosides generally comprise a base and sugar group. The nucleosides can be unmodified or modified at the sugar, and/or base moiety, (also referred to

interchangeably as nucleoside analogs, modified nucleosides, non-natural nucleosides, non-standard nucleosides and other; see for example, Usman and McSwiggen, *supra*; Eckstein *et al.*, International PCT Publication No. WO 92/07065; Usman *et al.*, International PCT Publication No. WO 93/15187; Uhlman & Peyman, *supra* all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach *et al.*, 1994, Nucleic Acids Res. 22, 2183. Some of the non-limiting examples of chemically modified and other natural nucleic acid bases that can be introduced into nucleic acids include, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6-methyluridine), propyne, quesosine, 2-thiouridine, 4-thiouridine, wybutosine, wybutoxosine, 4-acetylcytidine, 5-(carboxyhydroxymethyl)uridine, 5'-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluridine, beta-D-galactosylqueosine, 1-methyladenosine, 1-methylinosine, 2,2-dimethylguanosine, 3-methylcytidine, 2-methyladenosine, 2-methylguanosine, N6-methyladenosine, 7-methylguanosine, 5-methoxyaminomethyl-2-thiouridine, 5-methylaminomethyluridine, 5-methylcarbonylmethyluridine, 5-methoxyuridine, 5-methyl-2-thiouridine, 2-methylthio-N6-isopentenyladenosine, beta-D-mannosylqueosine, uridine-5-oxyacetic acid, 2-thiocytidine, threonine derivatives and others (Burgin *et al.*, 1996, Biochemistry, 35, 14090; Uhlman & Peyman, *supra*). By "modified bases" in this aspect is meant nucleoside bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents; such bases can be used at any position, for example, within the catalytic core of an enzymatic nucleic acid molecule and/or in the substrate-binding regions of the nucleic acid molecule.

By "abasic" or "abasic nucleotide" is meant sugar moieties lacking a base or having other chemical groups in place of a base at the 1' position, (for more details see Wincott *et al.*, International PCT publication No. WO 97/26270).

By "unmodified nucleoside" is meant one of the bases adenine, cytosine, guanine, thymine, uracil joined to the 1' carbon of β -D-ribo-furanose.

By "modified nucleoside" is meant any nucleoside base that contains a modification in the chemical structure of an unmodified nucleoside base or sugar.

By "modified nucleotide" is meant any nucleoside base that contains a modification in the chemical structure of an unmodified nucleoside base, sugar and/or phosphate.

By "consists essentially of" is meant that the active nucleic acid molecule of the invention, for example, an enzymatic nucleic acid molecule, contains an enzymatic center or core equivalent to those in the examples, and binding arms able to bind RNA such that cleavage at the target site occurs. Other sequences can be present that do not interfere with such cleavage. Thus, a core region can, for example, include one or more loop, stem-loop structure, or linker that does not prevent enzymatic activity. Thus, the underlined regions in the sequences in **Tables III, IV, VIII and IX** can be such a loop, stem-loop, nucleotide linker, and/or non-nucleotide linker and can be represented generally as sequence "X". For example, a core sequence for a hammerhead enzymatic nucleic acid can comprise a conserved sequence, such as 5'-CUGAUGAG-3' and 5'-CGAA-3' connected by "X", where X is 5'-GCCGUUAGGC-3' (SEQ ID NO 37055), or any other Stem II region known in the art, or a nucleotide and/or non-nucleotide linker. Similarly, for other nucleic acid molecules of the instant invention, such as Inozyme, G-cleaver, amberzyme, zinzyme, DNAzyme, antisense, 2-5A antisense, triplex forming nucleic acid, and decoy nucleic acids, other sequences or non-nucleotide linkers can be present that do not interfere with the function of the nucleic acid molecule.

Sequence X can be a linker of ≥ 2 nucleotides in length, for example 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 26, 30, where the nucleotides can be internally base-paired to form a stem of about ≥ 2 base pairs. Alternatively or in addition, sequence X can be a non-nucleotide linker. In yet another embodiment, the nucleotide linker X can be a nucleic acid aptamer, such as an ATP aptamer, HIV Rev aptamer (RRE), HIV Tat aptamer (TAR) and others (for a review see Gold *et al.*, 1995, *Annu. Rev. Biochem.*, 64, 763; and Szostak & Ellington, 1993, in *The RNA World*, ed. Gesteland and Atkins, pp. 511, CSH Laboratory Press). A "nucleic acid aptamer" as used herein is meant to indicate a nucleic acid sequence capable of interacting with a ligand. The ligand can be any natural or a synthetic molecule, including but not limited to a resin, metabolites, nucleosides, nucleotides, drugs, toxins, transition state analogs, peptides, lipids, proteins, amino acids, nucleic acid molecules, hormones, carbohydrates, receptors, cells, viruses, bacteria and others.

In yet another embodiment, the non-nucleotide linker X is as defined herein. The term "non-nucleotide" as used herein include either abasic nucleotide, polyether, polyamine, polyamide, peptide, carbohydrate, lipid, or polyhydrocarbon compounds. Specific examples include those described by Seela and Kaiser, *Nucleic Acids Res.* 1990, 18:6353 and *Nucleic Acids Res.* 1987, 15:3113; Cload and Schepartz, *J. Am. Chem. Soc.* 1991, 113:6324; Richardson and Schepartz, *J. Am. Chem. Soc.* 1991, 113:5109; Ma *et al.*, *Nucleic Acids Res.* 1993, 21:2585 and *Biochemistry* 1993, 32:1751; Durand *et al.*, *Nucleic Acids Res.* 1990, 18:6353; McCurdy *et al.*, *Nucleosides & Nucleotides* 1991, 10:287; Ischke *et al.*, *Tetrahedron Lett.* 1993, 34:301; Ono *et al.*, *Biochemistry* 1991, 30:9914; Arnold *et al.*,

International Publication No. WO 89/02439; Usman *et al.*, International Publication No. WO 95/06731; Dudycz *et al.*, International Publication No. WO 95/11910 and Ferentz and Verdine, *J. Am. Chem. Soc.* 1991, 113:4000, all hereby incorporated by reference herein. A "non-nucleotide" further means any group or compound that can be incorporated into a nucleic acid chain in the place of one or more nucleotide units, including either sugar and/or phosphate substitutions, and allows the remaining bases to exhibit their enzymatic activity. The group or compound can be abasic in that it does not contain a commonly recognized nucleotide base, such as adenosine, guanine, cytosine, uracil or thymine. Thus, in one embodiment, the invention features an enzymatic nucleic acid molecule having one or more non-nucleotide moieties, and having enzymatic activity to cleave an RNA or DNA molecule.

Enzymatic Nucleic Acid Molecules

There are several known classes of enzymatic nucleic acid molecules capable of cleaving target RNA. In addition, several *in vitro* selection (evolution) strategies (Orgel, 1979, *Proc. R. Soc. London*, B 205, 435) have been used to evolve new nucleic acid catalysts capable of catalyzing cleavage and ligation of phosphodiester linkages (Joyce, 1989, *Gene*, 82, 83-87; Beaudry *et al.*, 1992, *Science* 257, 635-641; Joyce, 1992, *Scientific American* 267, 90-97; Breaker *et al.*, 1994, *TIBTECH* 12, 268; Bartel *et al.*, 1993, *Science* 261:1411-1418; Szostak, 1993, *TIBS* 17, 89-93; Kumar *et al.*, 1995, *FASEB J.*, 9, 1183; Breaker, 1996, *Curr. Op. Biotech.*, 7, 442; Santoro *et al.*, 1997, *Proc. Natl. Acad. Sci.*, 94, 4262; Tang *et al.*, 1997, *RNA* 3, 914; Nakacane & Eckstein, 1994, *supra*; Long & Uhlenbeck, 1994, *supra*; Ishizaka *et al.*, 1995, *supra*; Vaish *et al.*, 1997, *Biochemistry* 36, 6495; all of these are incorporated by reference herein). Each can catalyze a series of reactions including the hydrolysis of phosphodiester bonds in *trans* (and thus can cleave other RNA molecules) under physiological conditions. Table I summarizes some of the characteristics of some of these enzymatic nucleic acids. In general, enzymatic nucleic acids act by first binding to a target RNA. Such binding occurs through the target binding portion of an enzymatic nucleic acid that is held in close proximity to an enzymatic portion of the molecule that acts to cleave the target RNA. Thus, the enzymatic nucleic acid first recognizes and then binds a target RNA through complementary base-pairing, and once bound to the correct site, acts enzymatically to cut the target RNA. Strategic cleavage of such a target RNA will destroy its ability to direct synthesis of an encoded protein. After an enzymatic nucleic acid has bound and cleaved its RNA target, it is released from that RNA to search for another target and can repeatedly bind and cleave new targets.

The enzymatic nature of an enzymatic nucleic acid is advantageous over other technologies, since the concentration of enzymatic nucleic acid necessary to affect a therapeutic treatment is lower. This advantage reflects the ability of the enzymatic nucleic acid to act enzymatically. Thus, a single enzymatic nucleic acid molecule is able to cleave many molecules of target RNA. In addition, the enzymatic nucleic acid is a highly specific inhibitor, with the specificity of inhibition depending not only on the base-pairing mechanism of binding to the target RNA, but also on the mechanism of target RNA cleavage. Single mismatches, or base-substitutions, near the site of cleavage can be chosen to completely eliminate catalytic activity of an enzymatic nucleic acid.

Nucleic acid molecules having an endonuclease enzymatic activity are able to repeatedly cleave other separate RNA molecules in a nucleotide base sequence-specific manner. With proper design and construction, such enzymatic nucleic acid molecules can be targeted to any RNA transcript, and efficient cleavage achieved *in vitro* (Zaug *et al.*, 324, *Nature* 429 1986 ; Uhlenbeck, 1987 *Nature* 328, 596; Kim *et al.*, 84 *Proc. Natl. Acad. Sci. USA* 8788, 1987; Dreyfus, 1988, *Einstein Quart. J. Bio. Med.*, 6, 92; Haseloff and Gerlach, 334 *Nature* 585, 1988; Cech, 260 *JAMA* 3030, 1988; and Jefferies *et al.*, 17 *Nucleic Acids Research* 1371, 1989; Chartrand *et al.*, 1995, *Nucleic Acids Research* 23, 4092; Santoro *et al.*, 1997, *PNAS* 94, 4262).

Because of their sequence-specificity, *trans*-cleaving enzymatic nucleic acid molecules show promise as therapeutic agents for human disease (Usman & McSwiggen, 1995 *Ann. Rep. Med. Chem.* 30, 285-294; Christoffersen and Marr, 1995 *J. Med. Chem.* 38, 2023-2037). Enzymatic nucleic acid molecules can be designed to cleave specific RNA targets within the background of cellular RNA. Such a cleavage event renders the RNA non-functional and abrogates protein expression from that RNA. In this manner, synthesis of a protein associated with a disease state can be selectively inhibited.

Enzymatic nucleic acid molecules that cleave the specified sites in WNV-specific RNAs represent a novel therapeutic approach to treat WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states associated with WNV infection. The enzymatic nucleic acid molecules of the present invention can modulate, for example, down-regulate the activity of WNV via their catalytic activity. Those of ordinary skill in the art would realize that other enzymatic nucleic acid molecules that cleave WNV

RNAs can be designed using the techniques and other teachings described herein and thus are within the scope of the invention.

In one embodiment, the invention features the use of an enzymatic nucleic acid molecule, which can be in the hammerhead, NCH (Inozyme), G-cleaver, amberzyme, zinzyme and/or DNAzyme motif, to modulate the expression of a WNV gene or genes. In one particular embodiment, the enzymatic nucleic acid molecule is used to down-regulate the expression of a WNV gene or genes.

In one of the preferred embodiments of the inventions described herein, the enzymatic nucleic acid molecule is formed in a hammerhead or hairpin motif, but can also be formed in the motif of a hepatitis delta virus, group I intron, group II intron or RNase P RNA (in association with an RNA guide sequence), DNAzymes, NCH cleaving motifs (inozymes), or G-cleavers. Examples of such hammerhead motifs (Figure 1a) are described in Dreyfus, *supra*, Rossi *et al.*, 1992, *AIDS Research and Human Retroviruses* 8, 183. Examples of hairpin motifs are described in Hampel *et al.*, EP0360257, Hampel and Tritz, 1989 *Biochemistry* 28, 4929, Feldstein *et al.*, 1989, *Gene* 82, 53, Haseloff and Gerlach, 1989, *Gene*, 82, 43, Hampel *et al.*, 1990 *Nucleic Acids Res.* 18, 299; Chowrira & McSwiggen, US. Patent No. 5,631,359. The hepatitis delta virus motif is generally described in Perrotta and Been, 1992 *Biochemistry* 31, 16. The RNase P motif is generally described in Guerrier-Takada *et al.*, 1983 *Cell* 35, 849; Forster and Altman, 1990, *Science* 249, 783; Li and Altman, 1996, *Nucleic Acids Res.* 24, 835. Examples of group II introns are generally described in Griffin *et al.*, 1995, *Chem. Biol.* 2, 761; Michels and Pyle, 1995, *Biochemistry* 34, 2965; Pyle *et al.*, International PCT Publication No. WO 96/22689. The Group I intron is generally described in Cech *et al.*, U.S. Patent 4,987,071. DNAzymes (Figure 4) are generally described in Usman *et al.*, International PCT Publication No. WO 95/11304; Chartrand *et al.*, 1995, *NAR* 23, 4092; Breaker *et al.*, 1995, *Chem. Bio.* 2, 655; Santoro *et al.*, 1997, *PNAS* 94, 4262; Breaker, 1999, *Nature Biotechnology*, 17, 422-423; Santoro *et al.*, 2000, *J. Am. Chem. Soc.*, 122, 2433-39). NCH cleaving motifs (Figure 1b) are generally described in Ludwig & Sproat, International PCT Publication No. WO 98/58058; and G-cleavers (Figure 1c) are generally described in Kore *et al.*, 1998, *Nucleic Acids Research* 26, 4116-4120 and Eckstein *et al.*, International PCT Publication No. WO 99/16871. Additional motifs contemplated by the instant invention include the Allozyme (Breaker *et al.*, WO 98/43993, Shih *et al.*, U.S. Patent 5,589,332, George *et al.*, U.S. Patent 5,741,679), Amberzyme (Figure 2, Class I motif in Beigelman *et al.*, International PCT publication No. WO 99/55857) and Zinzyme (Figure 3, Class II motif in Beigelman *et al.*, International PCT publication No. WO 99/55857), all these references are incorporated by reference herein in their totalities, including drawings and can also be used in the present invention. These specific motifs are not limiting in the invention. Those skilled in the art will recognize that all that is important is that the

enzymatic molecule have a specific substrate binding site that is complementary to one or more of the target gene RNA regions, and that it have nucleotide sequences within or surrounding that substrate binding site that impart an RNA cleaving activity to the molecule (Cech *et al.*, U.S. Patent No. 4,987,071).

Enzymatic nucleic acid molecules of the invention that are allosterically regulated ("allozymes") can be used to modulate, for example down-regulate, WNV expression. These allosteric enzymatic nucleic acids or allozymes (see for example George *et al.*, US Patent Nos. 5,834,186 and 5,741,679, Shih *et al.*, US Patent No. 5,589,332, Nathan *et al.*, US Patent No. 5,871,914, Nathan and Ellington, International PCT publication No. WO 00/24931, Breaker *et al.*, International PCT Publication Nos. WO 00/26226 and 98/27104, and Sullenger *et al.*, International PCT publication No. WO 99/29842) are designed to respond to a signaling agent, for example a WNV proteins, WNV RNA, other proteins and/or RNAs involved in WNV activity, compounds, metals, polymers, molecules and/or drugs that are targeted to WNV infected cells etc., that in turn modulates the activity of the enzymatic nucleic acid molecule. In response to interaction with a predetermined signaling agent, the activity of the allosteric enzymatic nucleic acid is activated or inhibited such that the expression of a particular target is selectively modulated. The target can comprise WNV proteins, WNV RNA, and/or a predetermined cellular component that modulates WNV activity. In a specific example, allosteric enzymatic nucleic acid molecules that are activated by interaction with an RNA encoding a WNV protein are used as therapeutic agents *in vivo* to down-regulate WNV expression. The presence of the WNV RNA activates the allosteric enzymatic nucleic acid molecule, which subsequently cleaves the WNV RNA resulting in the inhibition of WNV protein expression. In this manner, cells that express the WNV protein are selectively targeted.

In another non-limiting example, an allozyme can be activated by a WNV protein, peptide, or mutant polypeptide that cause the allozyme to inhibit the expression of WNV genes, by, for example, cleaving RNA encoded by the WNV gene. In this non-limiting example, the allozyme acts as a decoy to inhibit the function of WNV and also inhibit the expression of WNV once activated by the WNV protein.

Target sites

Targets for useful nucleic acid molecules can be determined as disclosed in Draper *et al.*, WO 93/23569; Sullivan *et al.*, WO 93/23057; Thompson *et al.*, WO 94/02595; Draper *et al.*, WO 95/04818; McSwiggen *et al.*, US Patent No. 5,525,468 and hereby incorporated by reference herein in totality. Rather than repeat the guidance provided in those documents here, below are provided specific examples of such methods, not limiting to those in the art.

Nucleic acid molecules to such targets are designed as described in those applications and synthesized for testing *in vitro* and *in vivo*, as also described. Such nucleic acid molecules can also be optimized and delivered as described therein.

The sequence of WNV RNAs were screened for optimal nucleic acid target sites using a computer folding algorithm. Enzymatic nucleic acid cleavage sites were identified. These sites are shown in Tables III-XIII (All sequences are 5' to 3' in the tables, underlined regions can be any sequence "X" or linker X, the actual sequence is not relevant). The nucleotide base position is noted in the tables as that site designed for cleavage by the designated type of enzymatic nucleic acid. The nucleotide base position is noted in the tables as that site designed for cleavage by the designated type of enzymatic nucleic acid molecules.

Because WNV RNAs are highly homologous in certain regions, for example, the 3'-UTR, nucleic acid molecule target sites in such regions are also homologous. In such instances, a specific nucleic acid molecule can target different classes sub-types, and variants of WNV RNA. The advantage of a nucleic acid molecule that targets several classes, sub-types or variants of WNV RNA is clear, especially in cases where one or more of these RNAs contribute to the disease state.

Enzymatic nucleic acid molecules were designed that could bind to target sequences and were individually analyzed by computer folding (Jaeger *et al.*, 1989 *Proc. Natl. Acad. Sci. USA*, 86, 7706) to assess whether the enzymatic nucleic acid sequences fold into the appropriate secondary structure. Those enzymatic nucleic acid molecules with unfavorable intramolecular interactions between the binding arms and the catalytic core are eliminated from consideration. Varying binding arm lengths can be chosen to optimize activity. Generally, at least 5 bases on each arm are able to bind to, or otherwise interact with, the target RNA. Enzymatic nucleic acid molecules of the different motifs were designed to anneal to various sites in the mRNA message. The binding arms are complementary to the target site sequences described above.

Synthesis of Nucleic Acid Molecules

Synthesis of nucleic acids greater than 100 nucleotides in length is difficult using automated methods, and the therapeutic cost of such molecules is prohibitive. In this invention, small nucleic acid motifs ("small" refers to nucleic acid motifs less than about 100 nucleotides in length, and in one embodiment, less than about 80 nucleotides in length, and in

another embodiment, less than about 50 nucleotides in length; e.g., antisense oligonucleotides, hammerhead or the NCH ribozymes) can be used for exogenous delivery. The simple structure of these molecules increases the ability of the nucleic acid to invade targeted regions of RNA structure. Exemplary molecules of the instant invention are chemically synthesized, and others can similarly be synthesized.

Oligonucleotides (e.g., antisense GeneBlocs) are synthesized using protocols known in the art, for example, as described in Caruthers *et al.*, 1992, *Methods in Enzymology* 211, 3-19, Thompson *et al.*, International PCT Publication No. WO 99/54459, Wincott *et al.*, 1995, *Nucleic Acids Res.* 23, 2677-2684, Wincott *et al.*, 1997, *Methods Mol. Bio.*, 74, 59, Brennan *et al.*, 1998, *Biotechnol Bioeng.*, 61, 33-45, and Brennan, US patent No. 6,001,311. All of these references are incorporated herein by reference. The synthesis of oligonucleotides makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 μ mol scale protocol with a 2.5 min coupling step for 2'-O-methylated nucleotides and a 45 sec coupling step for 2'-deoxy nucleotides. Table II outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 μ mol scale can be performed on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 μ L of 0.11 M = 6.6 μ mol) of 2'-O-methyl phosphoramidite and a 105-fold excess of S-ethyl tetrazole (60 μ L of 0.25 M = 15 μ mol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymer-bound 5'-hydroxyl. A 22-fold excess (40 μ L of 0.11 M = 4.4 μ mol) of deoxy phosphoramidite and a 70-fold excess of S-ethyl tetrazole (40 μ L of 0.25 M = 10 μ mol) can be used in each coupling cycle of deoxy residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include; detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% *N*-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); and oxidation solution is 16.9 mM I₂, 49 mM pyridine, 9% water in THF (PERSEPTIVE™). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide, 0.05 M in acetonitrile) is used.

Deprotection of the antisense oligonucleotides is performed as follows: the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and

suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The support is washed three times with 1.0 mL of EtOH:MeCN:H₂O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder.

The method of synthesis used for normal RNA including certain enzymatic nucleic acid molecules follows the procedure as described in Usman *et al.*, 1987, *J. Am. Chem. Soc.*, 109, 7845; Scaringe *et al.*, 1990, *Nucleic Acids Res.*, 18, 5433; and Wincott *et al.*, 1995, *Nucleic Acids Res.* 23, 2677-2684 Wincott *et al.*, 1997, *Methods Mol. Bio.*, 74, 59, and makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 µmol scale protocol with a 7.5 min coupling step for alkylsilyl protected nucleotides and a 2.5 min coupling step for 2'-O-methylated nucleotides. Table II outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 µmol scale can be done on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 µL of 0.11 M = 6.6 µmol) of 2'-O-methyl phosphoramidite and a 75-fold excess of S-ethyl tetrazole (60 µL of 0.25 M = 15 µmol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymer-bound 5'-hydroxyl. A 66-fold excess (120 µL of 0.11 M = 13.2 µmol) of alkylsilyl (ribo) protected phosphoramidite and a 150-fold excess of S-ethyl tetrazole (120 µL of 0.25 M = 30 µmol) can be used in each coupling cycle of ribo residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include; detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% *N*-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); oxidation solution is 16.9 mM I₂, 49 mM pyridine, 9% water in THF (PERSEPTIVE™). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide 0.05 M in acetonitrile) is used.

Deprotection of the RNA is performed using either a two-pot or one-pot protocol. For the two-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The

support is washed three times with 1.0 mL of EtOH:MeCN:H₂O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder. The base deprotected oligoribonucleotide is resuspended in anhydrous TEA/HF/NMP solution (300 μ L of a solution of 1.5 mL N-methylpyrrolidinone, 750 μ L TEA and 1 mL TEA \cdot 3HF to provide a 1.4 M HF concentration) and heated to 65 $^{\circ}$ C. After 1.5 h, the oligomer is quenched with 1.5 M NH₄HCO₃.

Alternatively, for the one-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 33% ethanolic methylamine/DMSO: 1/1 (0.8 mL) at 65 $^{\circ}$ C for 15 min. The vial is brought to r.t. TEA \cdot 3HF (0.1 mL) is added and the vial is heated at 65 $^{\circ}$ C for 15 min. The sample is cooled at -20 $^{\circ}$ C and then quenched with 1.5 M NH₄HCO₃.

For purification of the trityl-on oligomers, the quenched NH₄HCO₃ solution is loaded onto a C-18 containing cartridge that had been prewashed with acetonitrile followed by 50 mM TEAA. After washing the loaded cartridge with water, the RNA is detritylated with 0.5% TFA for 13 min. The cartridge is then washed again with water, salt exchanged with 1 M NaCl and washed with water again. The oligonucleotide is then eluted with 30% acetonitrile.

Inactive hammerhead ribozymes or binding attenuated control (BAC) oligonucleotides are synthesized by substituting a U for G₅ and a U for A₁₄ (numbering from Hertel, K. J., *et al.*, 1992, *Nucleic Acids Res.*, 20, 3252). Similarly, one or more nucleotide substitutions can be introduced in other enzymatic nucleic acid molecules to inactivate the molecule and such molecules can serve as a negative control.

The average stepwise coupling yields are typically >98% (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677-2684). Those of ordinary skill in the art will recognize that the scale of synthesis can be adapted to be larger or smaller than the example described above including but not limited to 96 well format, all that is important is the ratio of chemicals used in the reaction.

Alternatively, the nucleic acid molecules of the present invention can be synthesized separately and joined together post-synthetically, for example by ligation (Moore *et al.*, 1992, *Science* 256, 9923; Draper *et al.*, International PCT publication No. WO 93/23569; Shabarova *et al.*, 1991, *Nucleic Acids Research* 19, 4247; Bellon *et al.*, 1997, *Nucleosides & Nucleotides*, 16, 951; Bellon *et al.*, 1997, *Bioconjugate Chem.* 8, 204).

The nucleic acid molecules of the present invention can be modified extensively to enhance stability by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H (for a review see Usman and Cedergren, 1992, *TIBS* 17, 34;

Usman *et al.*, 1994, *Nucleic Acids Symp. Ser.* 31, 163). Ribozymes are purified by gel electrophoresis using general methods or are purified by high pressure liquid chromatography (HPLC; See Wincott *et al.*, *Supra*, the totality of that reference is incorporated herein by reference) and are re-suspended in water.

The sequences of the enzymatic nucleic acids that are chemically synthesized, are shown in **Tables III to XIII**. Those in the art will recognize that these sequences are representative only of many more such sequences where the enzymatic portion of the enzymatic nucleic acid (all but the binding arms) is altered to affect activity. The enzymatic nucleic acid molecule sequences listed in **Tables III to XIII** can be formed of ribonucleotides or other nucleotides or non-nucleotides. Such nucleic acids with enzymatic activity are equivalent to the enzymatic nucleic acid molecules described specifically in the tables.

Optimizing Activity of the nucleic acid molecules of the invention.

Chemically synthesizing nucleic acid molecules with modifications (base, sugar and/or phosphate) that prevent their degradation by serum ribonucleases, which can increase their potency (see *e.g.*, Eckstein *et al.*, International Publication No. WO 92/07065; Perrault *et al.*, 1990 *Nature* 344, 565; Pieken *et al.*, 1991, *Science* 253, 314; Usman and Cedergren, 1992, *Trends in Biochem. Sci.* 17, 334; Usman *et al.*, International Publication No. WO 93/15187; and Rossi *et al.*, International Publication No. WO 91/03162; Sproat, US Patent No. 5,334,711; and Burgin *et al.*, *supra*; all of which are incorporated by reference herein). All of the above references describe various chemical modifications that can be made to the base, phosphate and/or sugar moieties of the nucleic acid molecules described herein. Modifications that enhance their efficacy in cells, and removal of bases from nucleic acid molecules to shorten oligonucleotide synthesis times and reduce chemical requirements are desired.

There are several examples in the art describing sugar, base and phosphate modifications that can be introduced into nucleic acid molecules with significant enhancement in their nuclease stability and efficacy. For example, oligonucleotides are modified to enhance stability and/or enhance biological activity by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H, nucleotide base modifications (for a review see Usman and Cedergren, 1992, *TIBS* 17, 34; Usman *et al.*, 1994, *Nucleic Acids Symp. Ser.* 31, 163; Burgin *et al.*, 1996, *Biochemistry*, 35, 14090). Sugar modification of nucleic acid molecules has been extensively described in the art (see Eckstein *et al.*, International Publication PCT No. WO 92/07065; Perrault *et al.*

Nature, 1990, 344, 565-568; Pieken *et al.* *Science*, 1991, 253, 314-317; Usman and Cedergren, *Trends in Biochem. Sci.*, 1992, 17, 334-339; Usman *et al.* *International Publication* PCT No. WO 93/15187; Sproat, *US Patent* No. 5,334,711 and Beigelman *et al.*, 1995, *J. Biol. Chem.*, 270, 25702; Beigelman *et al.*, *International PCT publication* No. WO 97/26270; Beigelman *et al.*, *US Patent* No. 5,716,824; Usman *et al.*, *US patent* No. 5,627,053; Woolf *et al.*, *International PCT Publication* No. WO 98/13526; Thompson *et al.*, *USSN* 60/082,404 that was filed on April 20, 1998; Karpeisky *et al.*, 1998, *Tetrahedron Lett.*, 39, 1131; Earnshaw and Gait, 1998, *Biopolymers (Nucleic acid Sciences)*, 48, 39-55; Verma and Eckstein, 1998, *Annu. Rev. Biochem.*, 67, 99-134; and Burlina *et al.*, 1997, *Bioorg. Med. Chem.*, 5, 1999-2010; all of the references are hereby incorporated in their totality by reference herein). Such publications describe general methods and strategies to determine the location of incorporation of sugar, base and/or phosphate modifications and the like into enzymatic nucleic acids without inhibiting catalysis, and are incorporated by reference herein. In view of such teachings, similar modifications can be used as described herein to modify the nucleic acid molecules of the instant invention.

In connection with 2'-modified nucleotides as described for the present invention, by "amino" is meant 2'-NH₂ or 2'-O- NH₂, that can be modified or unmodified. Such modified groups are described, for example, in Eckstein *et al.*, U.S. Patent 5,672,695 and Matulic-Adamic *et al.*, WO 98/28317, respectively, which are both incorporated by reference in their entireties.

Various modifications to nucleic acid (*e.g.*, antisense and enzymatic nucleic acid) structure can be made to enhance the utility of these molecules. Such modifications will enhance shelf-life, half-life *in vitro*, stability, and ease of introduction of such oligonucleotides to the target site, *e.g.*, to enhance penetration of cellular membranes, and confer the ability to recognize and bind to targeted cells.

While chemical modification of oligonucleotide internucleotide linkages with phosphorothioate, phosphorothioate, and/or 5'-methylphosphonate linkages improves stability, excessive modifications can cause some toxicity. Therefore, when designing nucleic acid molecules, the amount of these internucleotide linkages should be minimized. The reduction in the concentration of these linkages should lower toxicity, resulting in increased efficacy and higher specificity of these molecules.

Nucleic acid molecules having chemical modifications that maintain or enhance activity are provided. Such a nucleic acid is also generally more resistant to nucleases than an unmodified nucleic acid. Accordingly, the *in vitro* and/or *in vivo* activity should not be significantly lowered. In cases in which inhibition is the goal, therapeutic nucleic acid molecules delivered exogenously should optimally be stable within cells until translation of the target RNA has been inhibited long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. Clearly, nucleic acid molecules must be resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of RNA and DNA (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677; Caruthers *et al.*, 1992, *Methods in Enzymology* 211,3-19 (incorporated by reference herein) have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability, as described above.

In one embodiment, nucleic acid molecules of the invention include one or more G-clamp nucleotides. A G-clamp nucleotide is a modified cytosine analog wherein the modifications confer the ability to hydrogen bond both Watson-Crick and Hoogsteen faces of a complementary guanine within a duplex, see for example Lin and Matteucci, 1998, *J. Am. Chem. Soc.*, 120, 8531-8532. A single G-clamp analog substitution within an oligonucleotide can result in substantially enhanced helical thermal stability and mismatch discrimination when hybridized to complementary oligonucleotides. The inclusion of such nucleotides in nucleic acid molecules of the invention results in both enhanced affinity and specificity to nucleic acid targets.

In another embodiment, the invention features conjugates and/or complexes of nucleic acid molecules targeting WNV. Such conjugates and/or complexes can be used to facilitate delivery of molecules into a biological system, such as cells. The conjugates and complexes provided by the instant invention can impart therapeutic activity by transferring therapeutic compounds across cellular membranes, altering the pharmacokinetics, and/or modulating the localization of nucleic acid molecules of the invention. The present invention encompasses the design and synthesis of novel conjugates and complexes for the delivery of molecules, including but not limited to small molecules, lipids, phospholipids, nucleosides, nucleotides, nucleic acids, antibodies, toxins, negatively charged polymers and other polymers, for example proteins, peptides, hormones, carbohydrates, polyethylene glycols, or polyamines, across cellular membranes. In general, the transporters described are designed to be used either individually or as part of a multi-component system, with or without degradable linkers. These compounds are expected to improve delivery and/or localization of nucleic

acid molecules of the invention into a number of cell types originating from different tissues, in the presence or absence of serum (see Sullenger and Cech, US 5,854,038). Conjugates of the molecules described herein can be attached to biologically active molecules via linkers that are biodegradable, such as biodegradable nucleic acid linker molecules.

The term "biodegradable nucleic acid linker molecule" as used herein, refers to a nucleic acid molecule that is designed as a biodegradable linker to connect one molecule to another molecule, for example, a biologically active molecule. The stability of the biodegradable nucleic acid linker molecule can be modulated by using various combinations of ribonucleotides, deoxyribonucleotides, and chemically modified nucleotides, for example, 2'-O-methyl, 2'-fluoro, 2'-amino, 2'-O-amino, 2'-C-allyl, 2'-O-allyl, and other 2'-modified or base modified nucleotides. The biodegradable nucleic acid linker molecule can be a dimer, trimer, tetramer or longer nucleic acid molecule, for example, an oligonucleotide of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 nucleotides in length, or can comprise a single nucleotide with a phosphorus based linkage, for example, a phosphoramidate or phosphodiester linkage. The biodegradable nucleic acid linker molecule can also comprise nucleic acid backbone, nucleic acid sugar, or nucleic acid base modifications.

The term "biodegradable" as used herein, refers to degradation in a biological system, for example enzymatic degradation or chemical degradation.

The term "biologically active molecule" as used herein, refers to compounds or molecules that are capable of eliciting or modifying a biological response in a system. Non-limiting examples of biologically active molecules contemplated by the instant invention include therapeutically active molecules such as antibodies, hormones, antivirals, peptides, proteins, chemotherapeutics, small molecules, vitamins, co-factors, nucleosides, nucleotides, oligonucleotides, enzymatic nucleic acids, antisense nucleic acids, triplex forming oligonucleotides, 2,5-A chimeras, siRNA, dsRNA, allozymes, aptamers, decoys and analogs thereof. Biologically active molecules of the invention also include molecules capable of modulating the pharmacokinetics and/or pharmacodynamics of other biologically active molecules, for example, lipids and polymers such as polyamines, polyamides, polyethylene glycol and other polyethers.

The term "phospholipid" as used herein, refers to a hydrophobic molecule comprising at least one phosphorus group. For example, a phospholipid can comprise a phosphorus containing group and saturated or unsaturated alkyl group, optionally substituted with OH, COOH, oxo, amine, or substituted or unsubstituted aryl groups.

Therapeutic nucleic acid molecules (*e.g.*, enzymatic nucleic acid molecules) delivered exogenously optimally are stable within cells until translation of the target RNA has been inhibited long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. The nucleic acid molecules are resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of nucleic acid molecules described in the instant invention and in the art have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability as described above.

In yet another preferred embodiment, nucleic acid catalysts having chemical modifications that maintain or enhance enzymatic activity are provided. Such nucleic acids are also generally more resistant to nucleases than unmodified nucleic acids. Thus, *in vitro* and/or *in vivo* the activity should not be significantly lowered. As exemplified herein, such nucleic acid molecules are useful *in vitro* and/or *in vivo* even if activity over all is reduced 10 fold (Burgin *et al.*, 1996, *Biochemistry*, 35, 14090). Such enzymatic nucleic acid molecules herein are said to "maintain" the enzymatic activity of an all RNA enzymatic nucleic acid molecule.

In a preferred embodiment, the invention features modified nucleic acids with phosphate backbone modifications comprising one or more phosphorothioate, phosphorodithioate, methylphosphonate, morpholino, amidate carbamate, carboxymethyl, acetamidate, polyamide, sulfonate, sulfonamide, sulfamate, formacetal, thioformacetal, and/or alkylsilyl, substitutions. For a review of oligonucleotide backbone modifications see Hunziker and Leumann, 1995, *Nucleic Acid Analogues: Synthesis and Properties*, in *Modern Synthetic Methods*, VCH, 331-417, and Mesmaeker *et al.*, 1994, *Novel Backbone Replacements for Oligonucleotides*, in *Carbohydrate Modifications in Antisense Research*, ACS, 24-39. These references are hereby incorporated by reference herein.

These molecules can improve treatment of the disease by affording the possibility of combination therapies (*e.g.*, multiple nucleic acid molecules targeted to different genes, nucleic acid molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations of nucleic acid molecules (including different enzymatic nucleic acid motifs) and/or other chemical or biological molecules). The treatment of patients with nucleic acid molecules can also include combinations of different types of nucleic acid molecules. Therapies can be devised that include a mixture of enzymatic nucleic acids

(including different enzymatic nucleic acid motifs), antisense and/or 2-5A chimera molecules to one or more targets to alleviate symptoms of a disease.

Administration of Nucleic Acid Molecules

Methods for the delivery of nucleic acid molecules are described in Akhtar *et al.*, 1992, *Trends Cell Bio.*, 2, 139; *Delivery Strategies for Antisense Oligonucleotide Therapeutics*, ed. Akhtar, 1995, Maurer *et al.*, 1999, *Mol. Membr. Biol.*, 16, 129-140; Hofland and Huang, 1999, *Handb. Exp. Pharmacol.*, 137, 165-192; and Lee *et al.*, 2000, *ACS Symp. Ser.*, 752, 184-192, all of which are incorporated herein by reference. Sullivan *et al.*, PCT WO 94/02595, further describes the general methods for delivery of enzymatic nucleic acid molecules. These protocols can be utilized for the delivery of virtually any nucleic acid molecule. Nucleic acid molecules can be administered to cells by a variety of methods known to those of skill in the art, including, but not restricted to, encapsulation in liposomes, by iontophoresis, or by incorporation into other vehicles, such as hydrogels, cyclodextrins, biodegradable nanocapsules, and bioadhesive microspheres, or by proteinaceous vectors (O'Hare and Normand, International PCT Publication No. WO 00/53722). Alternatively, the nucleic acid/vehicle combination is locally delivered by direct injection or by use of an infusion pump. Direct injection of the nucleic acid molecules of the invention, whether subcutaneous, intramuscular, or intradermal, can take place using standard needle and syringe methodologies, or by needle-free technologies such as those described in Conry *et al.*, 1999, *Clin. Cancer Res.*, 5, 2330-2337 and Barry *et al.*, International PCT Publication No. WO 99/31262.

Specific methods of delivery that can be utilized for CNS delivery of the nucleic acid molecules of the invention are described in Pardridge, 1999, *Adv. Drug Delivery Rev.*, 36, 299-321 and Boado *et al.*, 1998, *J. Pharm. Sci.*, 87, 1308-1315. Many examples in the art describe CNS delivery methods of oligonucleotides by osmotic pump, (see Chun *et al.*, 1998, *Neuroscience Letters*, 257, 135-138, D'Aldin *et al.*, 1998, *Mol. Brain Research*, 55, 151-164, Dryden *et al.*, 1998, *J. Endocrinol.*, 157, 169-175, Ghimikar *et al.*, 1998, *Neuroscience Letters*, 247, 21-24) or direct infusion (Broaddus *et al.*, 1997, *Neurosurg. Focus*, 3, article 4). Other routes of delivery include, but are not limited to, oral (tablet or pill form), pulmonary (Patton, 1996, *Adv. Drug Delivery Rev.*, 19, 3-36) and/or intrathecal delivery (Gold, 1997, *Neuroscience*, 76, 1153-1158). For a comprehensive review on drug delivery strategies including broad coverage of CNS delivery, see Jain, *Drug Delivery Systems: Technologies and Commercial Opportunities*, Decision Resources, 1998. More detailed descriptions of nucleic acid delivery and administration are provided in Sullivan *et al.*, supra, Draper *et al.*, PCT WO93/23569, Beigelman *et al.*, PCT WO99/05094, and Klimuk *et al.*, PCT WO99/04819 all of which have been incorporated by reference herein.

The molecules of the instant invention can be used as pharmaceutical agents. Pharmaceutical agents prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, or all of the symptoms) of a disease state in a patient.

Thus, the invention features a pharmaceutical composition comprising one or more nucleic acid(s) of the invention in an acceptable carrier, such as a stabilizer, buffer, and the like. The negatively charged polynucleotides of the invention can be administered (*e.g.*, RNA, DNA or protein) and introduced into a patient by any standard means, with or without stabilizers, buffers, and the like, to form a pharmaceutical composition. When it is desired to use a lipid or liposome delivery mechanism, standard protocols for formulation can be followed. The compositions of the present invention can also be formulated and used as tablets, capsules or elixirs for oral administration, suppositories for rectal administration, sterile solutions, suspensions for injectable administration; and the like.

The present invention also includes pharmaceutically acceptable formulations of the compounds described. These formulations include salts of the above compounds, *e.g.*, acid addition salts, for example, salts of hydrochloric, hydrobromic, acetic acid, and benzene sulfonic acid.

A pharmacological composition or formulation refers to a composition or formulation in a form suitable for administration, *e.g.*, systemic administration, into a cell or patient, including for example a human. Suitable forms, in part, depend upon the use or the route of entry, for example oral, transdermal, or by injection. Such forms should not prevent the composition or formulation from reaching a target cell (*i.e.*, a cell to which the negatively charged nucleic acid is desirable for delivery). For example, pharmacological compositions injected into the blood stream should be soluble. Other factors are known in the art, and include considerations such as toxicity and forms that prevent the composition or formulation from exerting its effect.

By "systemic administration" is meant *in vivo* systemic absorption or accumulation of drugs in the blood stream followed by distribution throughout the entire body. Administration routes that can lead to systemic absorption include, without limitations: intravenous, subcutaneous, intraperitoneal, inhalation, oral, intrapulmonary and intramuscular. Each of these administration routes expose the desired negatively charged polymers, *e.g.*, nucleic acids, to an accessible diseased tissue. The rate of entry of a drug into

the circulation has been shown as a function of molecular weight or size. The use of a liposome or other drug carrier comprising the compounds of the instant invention can potentially localize the drug, for example, in certain tissue types, such as the tissues of the reticular endothelial system (RES). A liposome formulation that can facilitate the association of drug with the surface of cells, such as, lymphocytes and macrophages is also useful. This approach can provide enhanced delivery of the drug to target cells by taking advantage of the specificity of macrophage and lymphocyte immune recognition of abnormal cells, such as the WNV infected liver cells.

By "pharmaceutically acceptable" formulation is meant, a composition or formulation that allows for the effective distribution of the nucleic acid molecules of the instant invention in the physical location most suitable for their desired activity. Nonlimiting examples of agents suitable for formulation with the nucleic acid molecules of the instant invention include: P-glycoprotein inhibitors (such as Pluronic P85) that can enhance entry of drugs into the CNS (Jolliet-Riant and Tillement, 1999, *Fundam. Clin. Pharmacol.*, 13, 16-26); biodegradable polymers, such as poly (DL-lactide-coglycolide) microspheres for sustained release delivery after intracerebral implantation (Emerich, DF et al, 1999, *Cell Transplant*, 8, 47-58) Alkermes, Inc. Cambridge, MA; and loaded nanoparticles, such as those made of polybutylcyanoacrylate, that can deliver drugs across the blood brain barrier and can alter neuronal uptake mechanisms (*Prog Neuropsychopharmacol Biol Psychiatry*, 23, 941-949, 1999). Other non-limiting examples of CNS delivery strategies for the nucleic acid molecules of the instant invention include material described in Boado et al., 1998, *J. Pharm. Sci.*, 87, 1308-1315; Tyler et al., 1999, *FEBS Lett.*, 421, 280-284; Pardridge et al., 1995, *PNAS USA.*, 92, 5592-5596; Boado, 1995, *Adv. Drug Delivery Rev.*, 15, 73-107; Aldrian-Herrada et al., 1998, *Nucleic Acids Res.*, 26, 4910-4916; and Tyler et al., 1999, *PNAS USA.*, 96, 7053-7058.

The invention also features the use of a composition comprising surface-modified liposomes containing poly (ethylene glycol) lipids (PEG-modified, or long-circulating liposomes or stealth liposomes). These formulations offer an method for increasing the accumulation of drugs in target tissues. This class of drug carriers resists opsonization and elimination by the mononuclear phagocytic system (MPS or RES), thereby enabling longer blood circulation times and enhanced tissue exposure for the encapsulated drug (Lasic *et al. Chem. Rev.* 1995, 95, 2601-2627; Ishiwata *et al.*, *Chem. Pharm. Bull.* 1995, 43, 1005-1011). Such liposomes have been shown to accumulate selectively in tumors, presumably by

extravasation and capture in the neovascularized target tissues (Lasic *et al.*, *Science* 1995, 267, 1275-1276; Oku *et al.*, 1995, *Biochim. Biophys. Acta*, 1238, 86-90). The long-circulating liposomes enhance the pharmacokinetics and pharmacodynamics of DNA and RNA, particularly compared to conventional cationic liposomes that are known to accumulate in tissues of the MPS (Liu *et al.*, *J. Biol. Chem.* 1995, 42, 24864-24870; Choi *et al.*, International PCT Publication No. WO 96/10391; Ansell *et al.*, International PCT Publication No. WO 96/10390; Holland *et al.*, International PCT Publication No. WO 96/10392; all of these are incorporated by reference herein). Long-circulating liposomes are also likely to protect drugs from nuclease degradation to a greater extent compared to cationic liposomes, based on their ability to avoid accumulation in metabolically aggressive MPS tissues such as the liver and spleen. All of these references are incorporated by reference herein.

In addition, other cationic molecules can also be utilized to deliver the molecules of the present invention. For example, nucleic acid molecule can be conjugated to glycosylated poly(L-lysine) that has been shown to enhance localization of antisense oligonucleotides into the liver (Nakazono *et al.*, 1996, *Hepatology* 23, 1297-1303; Nahato *et al.*, 1997, *Biochem Pharm.* 53, 887-895). Glycosylated poly(L-lysine) can be covalently attached to the enzymatic nucleic acid or be bound to enzymatic nucleic acid through electrostatic interaction.

The present invention also includes compositions prepared for storage or administration that include a pharmaceutically effective amount of the desired compounds in a pharmaceutically acceptable carrier or diluent. Acceptable carriers or diluents for therapeutic use are well known in the pharmaceutical art, and are described, for example, in *Remington's Pharmaceutical Sciences*, Mack Publishing Co. (A.R. Gennaro edit. 1985), hereby incorporated by reference herein. For example, preservatives, stabilizers, dyes and flavoring agents can be provided. These include sodium benzoate, sorbic acid and esters of *p*-hydroxybenzoic acid. In addition, antioxidants and suspending agents can be used.

A pharmaceutically effective dose is that dose required to prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, preferably all of the symptoms) of a disease state. The pharmaceutically effective dose depends on the type of disease, the composition used, the route of administration, the type of mammal being treated, the physical characteristics of the specific mammal under consideration, concurrent medication, and other factors that those skilled in the medical arts will recognize. Generally, an amount between

0.1 mg/kg and 100 mg/kg body weight/day of active ingredients is administered dependent upon potency of the negatively charged polymer.

The nucleic acid molecules of the invention and formulations thereof can be administered orally, topically, parenterally, by inhalation or spray, or rectally in dosage unit formulations containing conventional non-toxic pharmaceutically acceptable carriers, adjuvants and/or vehicles. The term parenteral as used herein includes percutaneous, subcutaneous, intravascular (e.g., intravenous), intramuscular, or intrathecal injection or infusion techniques and the like. In addition, there is provided a pharmaceutical formulation comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. One or more nucleic acid molecules of the invention can be present in association with one or more non-toxic pharmaceutically acceptable carriers and/or diluents and/or adjuvants, and if desired other active ingredients. The pharmaceutical compositions containing nucleic acid molecules of the invention can be in a form suitable for oral use, for example, as tablets, troches, lozenges, aqueous or oily suspensions, dispersible powders or granules, emulsion, hard or soft capsules, or syrups or elixirs.

Compositions intended for oral use can be prepared according to any method known to the art for the manufacture of pharmaceutical compositions and such compositions can contain one or more such sweetening agents, flavoring agents, coloring agents or preservative agents in order to provide pharmaceutically elegant and palatable preparations. Tablets contain the active ingredient in admixture with non-toxic pharmaceutically acceptable excipients that are suitable for the manufacture of tablets. These excipients can be for example, inert diluents, such as calcium carbonate, sodium carbonate, lactose, calcium phosphate or sodium phosphate; granulating and disintegrating agents, for example, corn starch, or alginic acid; binding agents, for example starch, gelatin or acacia, and lubricating agents, for example magnesium stearate, stearic acid or talc. The tablets can be uncoated or they can be coated by known techniques. In some cases such coatings can be prepared by known techniques to delay disintegration and absorption in the gastrointestinal tract and thereby provide a sustained action over a longer period. For example, a time delay material such as glyceryl monostearate or glyceryl distearate can be employed.

Formulations for oral use can also be presented as hard gelatin capsules wherein the active ingredient is mixed with an inert solid diluent, for example, calcium carbonate, calcium phosphate or kaolin, or as soft gelatin capsules wherein the active ingredient is mixed with water or an oil medium, for example peanut oil, liquid paraffin or olive oil.

Aqueous suspensions contain the active materials in admixture with excipients suitable for the manufacture of aqueous suspensions. Such excipients are suspending agents, for example sodium carboxymethylcellulose, methylcellulose, hydropropyl-methylcellulose,

sodium alginate, polyvinylpyrrolidone, gum tragacanth and gum acacia; dispersing or wetting agents can be a naturally-occurring phosphatide, for example, lecithin, or condensation products of an alkylene oxide with fatty acids, for example polyoxyethylene stearate, or condensation products of ethylene oxide with long chain aliphatic alcohols, for example heptadecaethyleneoxycetanol, or condensation products of ethylene oxide with partial esters derived from fatty acids and a hexitol such as polyoxyethylene sorbitol monooleate, or condensation products of ethylene oxide with partial esters derived from fatty acids and hexitol anhydrides, for example polyethylene sorbitan monooleate. The aqueous suspensions can also contain one or more preservatives, for example ethyl, or n-propyl p-hydroxybenzoate, one or more coloring agents, one or more flavoring agents, and one or more sweetening agents, such as sucrose or saccharin.

Oily suspensions can be formulated by suspending the active ingredients in a vegetable oil, for example arachis oil, olive oil, sesame oil or coconut oil, or in a mineral oil such as liquid paraffin. The oily suspensions can contain a thickening agent, for example beeswax, hard paraffin or cetyl alcohol. Sweetening agents and flavoring agents can be added to provide palatable oral preparations. These compositions can be preserved by the addition of an anti-oxidant such as ascorbic acid.

Dispersible powders and granules suitable for preparation of an aqueous suspension by the addition of water provide the active ingredient in admixture with a dispersing or wetting agent, suspending agent and one or more preservatives. Suitable dispersing or wetting agents or suspending agents are exemplified by those already mentioned above. Additional excipients, for example sweetening, flavoring and coloring agents, can also be present.

Pharmaceutical compositions of the invention can also be in the form of oil-in-water emulsions. The oily phase can be a vegetable oil or a mineral oil or mixtures of these. Suitable emulsifying agents can be naturally-occurring gums, for example gum acacia or gum tragacanth, naturally-occurring phosphatides, for example soy bean, lecithin, and esters or partial esters derived from fatty acids and hexitol, anhydrides, for example sorbitan monooleate, and condensation products of the said partial esters with ethylene oxide, for example polyoxyethylene sorbitan monooleate. The emulsions can also contain sweetening and flavoring agents.

Syrups and elixirs can be formulated with sweetening agents, for example glycerol, propylene glycol, sorbitol, glucose or sucrose. Such formulations can also contain a demulcent, a preservative and flavoring and coloring agents. The pharmaceutical compositions can be in the form of a sterile injectable aqueous or oleaginous suspension. This suspension can be formulated according to the known art using those suitable dispersing

or wetting agents and suspending agents that have been mentioned above. The sterile injectable preparation can also be a sterile injectable solution or suspension in a non-toxic parentally acceptable diluent or solvent, for example as a solution in 1,3-butanediol. Among the acceptable vehicles and solvents that can be employed are water, Ringer's solution and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil can be employed including synthetic mono-or diglycerides. In addition, fatty acids such as oleic acid find use in the preparation of injectables.

The nucleic acid molecules of the invention can also be administered in the form of suppositories, *e.g.*, for rectal administration of the drug. These compositions can be prepared by mixing the drug with a suitable non-irritating excipient that is solid at ordinary temperatures but liquid at the rectal temperature and will therefore melt in the rectum to release the drug. Such materials include cocoa butter and polyethylene glycols.

Nucleic acid molecules of the invention can be administered parenterally in a sterile medium. The drug, depending on the vehicle and concentration used, can either be suspended or dissolved in the vehicle. Advantageously, adjuvants such as local anesthetics, preservatives and buffering agents can be dissolved in the vehicle.

Dosage levels of the order of from about 0.1 mg to about 140 mg per kilogram of body weight per day are useful in the treatment of the above-indicated conditions (about 0.5 mg to about 7 g per patient per day). The amount of active ingredient that can be combined with the carrier materials to produce a single dosage form varies depending upon the host treated and the particular mode of administration. Dosage unit forms generally contain between from about 1 mg to about 500 mg of an active ingredient.

It is understood that the specific dose level for any particular patient depends upon a variety of factors including the activity of the specific compound employed, the age, body weight, general health, sex, diet, time of administration, route of administration, and rate of excretion, drug combination and the severity of the particular disease undergoing therapy.

For administration to non-human animals, the composition can also be added to the animal feed or drinking water. It can be convenient to formulate the animal feed and drinking water compositions so that the animal takes in a therapeutically appropriate quantity of the composition along with its diet. It can also be convenient to present the composition as a premix for addition to the feed or drinking water.

The nucleic acid molecules of the present invention can also be administered to a patient in combination with other therapeutic compounds to increase the overall therapeutic

effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

Alternatively, the enzymatic nucleic acid molecules of the instant invention can be expressed within cells from eukaryotic promoters (e.g., Izant and Weintraub, 1985 *Science* 229, 345; McGarry and Lindquist, 1986 *Proc. Natl. Acad. Sci. USA* 83, 399; Scanlon *et al.*, 1991, *Proc. Natl. Acad. Sci. USA*, 88, 10591-5; Kashani-Sabet *et al.*, 1992 *Antisense Res. Dev.*, 2, 3-15; Dropulic *et al.*, 1992 *J. Virol.*, 66, 1432-41; Weerasinghe *et al.*, 1991 *J. Virol.*, 65, 5531-4; Ojwang *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 10802-6; Chen *et al.*, 1992 *Nucleic Acids Res.*, 20, 4581-9; Sarver *et al.*, 1990 *Science* 247, 1222-1225; Thompson *et al.*, 1995 *Nucleic Acids Res.* 23, 2259; Good *et al.*, 1997, *Gene Therapy*, 4, 45; all of the references are hereby incorporated in their totality by reference herein). Those skilled in the art realize that any nucleic acid can be expressed in eukaryotic cells from the appropriate DNA/RNA vector. The activity of such nucleic acids can be augmented by their release from the primary transcript by a enzymatic nucleic acid (Draper *et al.*, PCT WO 93/23569, and Sullivan *et al.*, PCT WO 94/02595; Ohkawa *et al.*, 1992 *Nucleic Acids Symp. Ser.*, 27, 15-6; Taira *et al.*, 1991, *Nucleic Acids Res.*, 19, 5125-30; Ventura *et al.*, 1993 *Nucleic Acids Res.*, 21, 3249-55; Chowrira *et al.*, 1994 *J. Biol. Chem.* 269, 25856; all of the references are hereby incorporated in their totality by reference herein).

In another aspect of the invention, RNA molecules of the present invention can be expressed from transcription units (see for example Couture *et al.*, 1996, *TIG.*, 12, 510) inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. Ribozyme expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. The recombinant vectors capable of expressing the nucleic acid molecules can be delivered as described above, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of nucleic acid molecules. Such vectors can be repeatedly administered as necessary. Once expressed, the nucleic acid molecule binds to the target mRNA. Delivery of nucleic acid molecule expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from the patient followed by reintroduction into the patient, or by any other means that would allow for introduction into the desired target cell (for a review see Couture *et al.*, 1996, *TIG.*, 12, 510).

In one aspect, the invention features an expression vector comprising nucleic acid sequence encoding at least one of the nucleic acid molecules of the instant invention. The

nucleic acid sequence encoding the nucleic acid molecules of the instant invention is operably linked in a manner that allows expression of that nucleic acid molecule.

In another aspect, the invention features an expression vector comprising: a) a transcription initiation region (e.g., eukaryotic pol I, II or III initiation region); b) a transcription termination region (e.g., eukaryotic pol I, II or III termination region); c) a nucleic acid sequence encoding at least one of the nucleic acid molecules of the instant invention; and wherein said sequence is operably linked to said initiation region and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule. The vector can optionally include an open reading frame (ORF) for a protein operably linked on the 5' side or the 3'-side of the sequence encoding the nucleic acid catalyst of the invention; and/or an intron (intervening sequences).

Transcription of the nucleic acid molecule sequences can be driven from a promoter for eukaryotic RNA polymerase I (pol I), RNA polymerase II (pol II), or RNA polymerase III (pol III). Transcripts from pol II or pol III promoters are generally expressed at high levels in all cells; the levels of a given pol II promoter in a given cell type will depend on the nature of the gene regulatory sequences (enhancers, silencers, etc.) present nearby. Prokaryotic RNA polymerase promoters can be also used, providing that the prokaryotic RNA polymerase enzyme is expressed in the appropriate cells (Elroy-Stein and Moss, 1990, *Proc. Natl. Acad. Sci. U S A*, 87, 6743-7; Gao and Huang 1993, *Nucleic Acids Res.*, 21, 2867-72; Lieber et al., 1993, *Methods Enzymol.*, 217, 47-66; Zhou et al., 1990, *Mol. Cell. Biol.*, 10, 4529-37). All of these references are incorporated by reference herein. Several investigators have demonstrated that nucleic acid molecules, such as enzymatic nucleic acids, expressed from such promoters function in mammalian cells (e.g. Kashani-Sabet et al., 1992, *Antisense Res. Dev.*, 2, 3-15; Ojwang et al., 1992, *Proc. Natl. Acad. Sci. U S A*, 89, 10802-6; Chen et al., 1992, *Nucleic Acids Res.*, 20, 4581-9; Yu et al., 1993, *Proc. Natl. Acad. Sci. U S A*, 90, 6340-4; L'Huillier et al., 1992, *EMBO J.*, 11, 4411-8; Lisiewicz et al., 1993, *Proc. Natl. Acad. Sci. U. S. A.*, 90, 8000-4; Thompson et al., 1995, *Nucleic Acids Res.*, 23, 2259; Sullenger & Cech, 1993, *Science*, 262, 1566). More specifically, transcription units such as the ones derived from genes encoding U6 small nuclear (snRNA), transfer RNA (tRNA) and adenovirus VA RNA are useful in generating high concentrations of desired RNA molecules such as enzymatic nucleic acids in cells (Thompson et al., *supra*; Couture and Stinchcomb, 1996, *supra*; Noonberg et al., 1994, *Nucleic Acid Res.*, 22, 2830; Noonberg et al., US Patent No. 5,624,803; Good et al., 1997, *Gene Ther.*, 4, 45; Beigelman et al., International PCT

Publication No. *WO 96/18736*; all of these publications are incorporated by reference herein. The above enzymatic nucleic acid transcription units can be incorporated into a variety of vectors for introduction into mammalian cells, including but not restricted to, plasmid DNA vectors, viral DNA vectors (such as adenovirus or adeno-associated virus vectors), or viral RNA vectors (such as retroviral or alphavirus vectors) (for a review see Couture and Stinchcomb, 1996, *supra*).

In yet another aspect, the invention features an expression vector comprising nucleic acid sequence encoding at least one of the nucleic acid molecules of the invention, in a manner that allows expression of that nucleic acid molecule. The expression vector comprises in one embodiment; a) a transcription initiation region; b) a transcription termination region; and c) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to said initiation region and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an open reading frame; and d) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to the 3'-end of said open reading frame and wherein said sequence is operably linked to said initiation region, said open reading frame and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In yet another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; and d) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to said initiation region, said intron and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; d) an open reading frame; and e) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to the 3'-end of said open reading frame and wherein said sequence is operably linked to said initiation region, said intron, said open reading frame and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

The nucleic acid molecules of the present invention can also be administered to a patient in combination with other therapeutic compounds to increase the overall therapeutic effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

Interferons

Type I interferons (IFN) are a class of natural cytokines that includes a family of greater than twenty-five IFN- α (Pesta, 1986, *Methods Enzymol.* 119, 3-14) as well as IFN- β , and IFN- ω . Although evolutionarily derived from the same gene (Diaz *et al.*, 1994, *Genomics* 22, 540-552), there are many differences in the primary sequence of these molecules, implying an evolutionary divergence in biologic activity. All type I IFN share a common pattern of biologic effects that begin with binding of the IFN to the cell surface receptor (Pfeffer & Strulovici, 1992, Transmembrane secondary messengers for IFN- α/β , In: *Interferon. Principles and Medical Applications.*, S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.J. Stanton, and S.K. Tying, eds. 151-160). Binding is followed by activation of tyrosine kinases, including the Janus tyrosine kinases and the STAT proteins, which leads to the production of several IFN-stimulated gene products (Johnson *et al.*, 1994, *Sci. Am.* 270, 68-75). The IFN-stimulated gene products are responsible for the pleotropic biologic effects of type I IFN, including antiviral, antiproliferative, and immunomodulatory effects, cytokine induction, and HLA class I and class II regulation (Pestka *et al.*, 1987, *Annu. Rev. Biochem* 56, 727). Examples of IFN-stimulated gene products include 2-5-oligoadenylate synthetase (2-5 OAS), β_2 -microglobulin, neopterin, p68 kinases, and the Mx protein (Chebath & Revel, 1992, The 2-5 A system: 2-5 A synthetase, isospecies and functions. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Jr. Fleischmann, T.K. Jr Hughes, G.R. Kimpel, D.W. Niesel, G.J. Stanton, and S.K. Tying, eds., pp. 225-236; Samuel, 1992, The RNA-dependent P1/eIF-2 α protein kinase. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.H. Stanton, and S.K. Tying, eds. 237-250; Horisberger, 1992, MX protein: function and Mechanism of Action. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.H. Stanton, and S.K. Tying, eds. 215-224). Although all type I IFN have similar biologic effects, not all the activities are shared by each type I IFN, and, in many

cases, the extent of activity varies quite substantially for each IFN subtype (Fish *et al.*, 1989, *J. Interferon Res.* 9, 97-114; Ozes *et al.*, 1992, *J. Interferon Res.* 12, 55-59). More specifically, investigations into the properties of different subtypes of IFN- α and molecular hybrids of IFN- α have shown differences in pharmacologic properties (Rubinstein, 1987, *J. Interferon Res.* 7, 545-551). These pharmacologic differences can arise from as few as three amino acid residue changes (Lee *et al.*, 1982, *Cancer Res.* 42, 1312-1316).

Eighty-five to 166 amino acids are conserved in the known IFN- α subtypes. Excluding the IFN- α pseudogenes, there are approximately 25 known distinct IFN- α subtypes. Pairwise comparisons of these nonallelic subtypes show primary sequence differences ranging from 2% to 23%. In addition to the naturally occurring IFNs, a non-natural recombinant type I interferon known as consensus interferon (CIFN) has been synthesized as a therapeutic compound (Tong *et al.*, 1997, *Hepatology* 26, 747-754).

Interferon is currently in use for at least 12 different indications, including infectious and autoimmune diseases and cancer (Borden, 1992, *N. Engl. J. Med.* 326, 1491-1492). For autoimmune diseases, IFN has been utilized for treatment of rheumatoid arthritis, multiple sclerosis, and Crohn's disease. For treatment of cancer, IFN has been used alone or in combination with a number of different compounds. Specific types of cancers for that IFN has been used include squamous cell carcinomas, melanomas, hypernephromas, hemangiomas, hairy cell leukemia, and Kaposi's sarcoma. In the treatment of infectious diseases, IFNs increase the phagocytic activity of macrophages and cytotoxicity of lymphocytes and inhibits the propagation of cellular pathogens. Specific indications for that IFN has been used as treatment include: hepatitis B, human papillomavirus types 6 and 11 (i.e. genital warts) (Leventhal *et al.*, 1991, *N Engl J Med* 325, 613-617), chronic granulomatous disease, and hepatitis C virus.

Nucleic acid molecules of the instant invention, in combination with IFN, have the potential to improve the effectiveness of treatment of WNV or any of the other indications discussed above. Nucleic acid molecules targeting RNAs associated with diseases such as infectious diseases, autoimmune diseases, and cancer, can be used individually or in combination with other therapies such as IFN to achieve enhanced efficacy.

Examples

The following are non-limiting examples showing the selection, isolation, synthesis and activity of nucleic acids of the instant invention.

The following examples demonstrate the selection and design of Antisense, hammerhead, DNAzyme, NCH, Amberzyme, Zinzyme, or G-Cleaver enzymatic nucleic acid molecules and binding/cleavage sites within WNV RNA.

Example 1: Identification of Potential Target Sites in Human WNV RNA

The sequence of human WNV was screened for accessible sites using a computer-folding algorithm. Regions of the RNA that do not form secondary folding structures and contained potential enzymatic nucleic acid and/or antisense binding/cleavage sites were identified. The sequences of these binding/cleavage sites are shown in Tables III-XIII.

Example 2: Selection of Enzymatic Nucleic Acid Cleavage Sites in Human WNV RNA

Enzymatic nucleic acid target sites were chosen by analyzing sequences of Human WNV (Genbank accession No: AF196835) and prioritizing the sites on the basis of folding. Enzymatic nucleic acid molecules are designed that could bind each target and are individually analyzed by computer folding (Christoffersen *et al.*, 1994 *J. Mol. Struct. Theochem*, 311, 273; Jaeger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA*, 86, 7706) to assess whether the enzymatic nucleic acid molecules sequences fold into the appropriate secondary structure. Those enzymatic nucleic acid molecules with unfavorable intramolecular interactions between the binding arms and the catalytic core are eliminated from consideration. As noted below, varying binding arm lengths can be chosen to optimize activity. Generally, at least 4 bases on each arm can bind to, or otherwise interact with, the target RNA.

Example 3: Chemical Synthesis and Purification of Enzymatic nucleic acid molecules and Antisense for Efficient Cleavage and/or blocking of WNV RNA

Enzymatic nucleic acid molecules and antisense constructs can be designed to anneal to various sites in the RNA transcript. The binding arms of the enzymatic nucleic acid molecules are complementary to the target site sequences described above, while the antisense constructs are complementary to the target site sequences described above. The enzymatic nucleic acid molecules and antisense constructs can be chemically synthesized using, for example, RNA syntheses such as those described above and those described in Usman *et al.*, (1987 *J. Am. Chem. Soc.*, 109, 7845), Scaringe *et al.*, (1990 *Nucleic Acids Res.*, 18, 5433) and Wincott *et al.*, *supra*. Such methods make use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. The average stepwise coupling yields are typically >98%.

Enzymatic nucleic acid molecules and antisense constructs also can be synthesized from DNA templates using bacteriophage T7 RNA polymerase (Milligan and Uhlenbeck, 1989, *Methods Enzymol.* 180, 51). Enzymatic nucleic acid molecules and antisense constructs are purified by gel electrophoresis using known methods, or are purified by high pressure liquid chromatography (HPLC; See Wincott et al., *supra*; the totality of which is hereby incorporated herein by reference), and are resuspended in water. The sequences of chemically synthesized enzymatic nucleic acid constructs are shown below in **Table III-XIII**. The enzymatic nucleic acid molecules shown in **Table XIII** were chemically synthesized. The sequences of chemically synthesized antisense constructs are complimentary sequences to the Substrate sequences shown below as in **Table III-XIII**.

Example 4: Enzymatic nucleic acid molecule Cleavage of WNV RNA Target *in vitro*

Enzymatic nucleic acid molecules targeted to the human WNV RNA are designed and synthesized as described above. These enzymatic nucleic acid molecules can be tested for cleavage activity *in vitro*, for example using the following procedure. The target sequences and the nucleotide location within the WNV RNA are given in **Tables III-XIII**.

Cleavage Reactions: Full-length or partially full-length, internally-labeled target RNA for the enzymatic nucleic acid cleavage assay is prepared by *in vitro* transcription in the presence of [α - 32 P] CTP, passed over a G 50 Sephadex column by spin chromatography and used as substrate RNA without further purification. Alternately, substrates are 5'- 32 P-end labeled using T4 polynucleotide kinase enzyme. Assays are performed by pre-warming a 2X concentration of purified enzymatic nucleic acid in cleavage buffer (50 mM Tris-HCl, pH 7.5 at 37°C, 10 mM MgCl₂), and the cleavage reaction is initiated by adding the 2X enzymatic nucleic acid mix to an equal volume of substrate RNA (maximum of 1-5 nM) that was also pre-warmed in cleavage buffer. As an initial screen, assays are carried out for 3 hours at 37°C using a final concentration of either 40 nM or 1 mM enzymatic nucleic acid molecule, *i.e.*, enzymatic nucleic acid molecule excess. The reaction is quenched by the addition of an equal volume of 95% formamide, 20 mM EDTA, 0.05% bromophenol blue and 0.05% xylene cyanol after which the sample is heated to 95°C for 2 minutes, quick chilled and loaded onto a denaturing polyacrylamide gel. Substrate RNA and the specific RNA cleavage products generated by enzymatic nucleic acid cleavage are visualized on an autoradiograph of the gel. The percentage of cleavage is determined by Phosphor Imager[®] quantitation of bands representing the intact substrate and the cleavage products. Using the methods described, five different enzymatic nucleic acid molecules of different motifs were tested for cleavage activity. The results of this study are shown in **Table XIV**, which shows cleavage data for five different enzymatic nucleic acid motifs (Hammerhead, Inozyme, DNAzyme, Amberzyme and Zinzyme).

Example 5: Nucleic acid inhibition of WNV target RNA *in vivo*

Nucleic acid molecules targeted to the human WNV RNA are designed and synthesized as described above. These nucleic acid molecules can be tested for cleavage activity *in vivo*, for example, using the procedures described below. The target sequences and the nucleotide location within the WNV RNA are given in Tables III-XIII.

Cell Culture Assays

HeLa cells are seeded in 96-well plates at a density of 9000-10,000 cells/well and incubated at 37°C under 5% CO₂ for 24 h. Vero and/or BHK-21 cells can also be used. Cells are then infected with WNV for 1 hour at a multiplicity of infection of 2 in a total volume of 0.1 ml per well. Transfection of enzymatic nucleic acid (for example, enzymatic nucleic acid molecule of SEQ ID NOS. 37019-37043) or control oligonucleotides (scrambled or binding-attenuated core sequence; 50 - 200 nM final) is achieved by mixing 5X enzymatic nucleic acid or control oligonucleotides (250 - 1000 nM) and 5X of a cationic lipid in DMEM with 5% fetal bovine serum (FBS) in U-bottom 96-well plates. Enzymatic nucleic acid/lipid complexes are allowed to incubate for 15 min at 37°C under 5% CO₂. The viral inoculum is aspirated from cells and replaced with 80 µl of DMEM with 5% FBS serum and 20 µl of 5X nucleic acid/lipid complexes. Cells are incubated with 5X complexes for 24 h at 37°C under 5% CO₂. After 24 h, intracellular virus released after freeze/thaw and/or virus secreted into the media is quantified by plaque assay or by a cytopathic effect limiting dilution assay. In addition, viral protein and viral RNA can be analyzed by ELISA and RT-PCR, respectively.

Animal Models

WNV infectivity has been studied in mice (Ben-Nathan *et al.*, 1996m *Arch. Virol.*, 141, 459-469; Chambers *et al.*, 1998, 79, 2375-2380). Mouse models such as those described can be used to study inhibition of WNV by the nucleic acid molecules of the instant invention. For example, the induction to WNV infection in mice has been demonstrated, resulting in penetration of WNV into the central nervous system. Viral infection in mice is exacerbated when animals are macrophage depleted, resulting in higher and extended viremia and accelerated development of encephalitis and death. Both macrophage intact and macrophage depleted mice thus infected with WNV are treated with enzymatic nucleic acids of the invention (SEQ ID NOS: 37019-37043) along with relevant scrambled or attenuated controls via sub-cutaneous injection or intraperitoneal injection. Viral load and mortality are

used as endpoints in the study. As noted in Ben-Nathan *et al.*, *supra*, an increase in mortality from 50% to 100% results in macrophage depleted mice. A decrease in mortality based on these percentages with a similar decrease in viral load in these animals is indicative of a therapeutic effect mediated by nucleic acid molecules of the invention.

Diagnostic uses

Enzymatic nucleic acid molecules of this invention can be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of *WNV* RNA in a cell. The close relationship between enzymatic nucleic acid activity and the structure of the target RNA allows the detection of mutations in any region of the molecule that alters the base-pairing and three-dimensional structure of the target RNA. By using multiple enzymatic nucleic acid molecules described in this invention, one can map nucleotide changes that are important to RNA structure and function *in vitro*, as well as in cells and tissues *in vivo*. Cleavage of target RNAs with enzymatic nucleic acid molecules can be used to inhibit gene expression and define the role of specified gene products in the progression of disease. In this manner, other genetic targets can be defined as important mediators of the disease. Such methods can improve treatment of the disease by affording the possibility of combination therapies (e.g., multiple enzymatic nucleic acid molecules targeted to different genes, enzymatic nucleic acid molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations of enzymatic nucleic acid molecules and/or other chemical or biological molecules). Other *in vitro* uses of enzymatic nucleic acids of this invention are well known in the art, and include detection of the presence of mRNAs associated with WNV related condition. Such RNA is detected by determining the presence of a cleavage product after treatment with an enzymatic nucleic acid molecule using standard methodology.

Enzymatic nucleic acid molecules that can cleave only wild-type or mutant forms of the target RNA can be used for the assay. The first enzymatic nucleic acid molecule is used to identify wild-type RNA present in the sample and the second enzymatic nucleic acid molecule will be used to identify mutant RNA in the sample. As reaction controls, synthetic substrates of both wild-type and mutant RNA are cleaved by both enzymatic nucleic acid molecules to demonstrate the relative enzymatic nucleic acid efficiencies in the reactions and the absence of cleavage of the "non-targeted" RNA species. The cleavage products from the synthetic substrates also serve to generate size markers for the analysis of wild-type and

mutant RNAs in the sample population. Thus each analysis requires two enzymatic nucleic acid molecules, two substrates and one unknown sample that is combined into six reactions. The presence of cleavage products is determined using an RNase protection assay so that full-length and cleavage fragments of each RNA can be analyzed in one lane of a polyacrylamide gel. It is not absolutely required to quantify the results to gain insight into the expression of mutant RNAs and putative risk of the desired phenotypic changes in target cells. The expression of mRNA whose protein product is implicated in the development of the phenotype (*i.e.*, WNV) is adequate to establish risk. If probes of comparable specific activity are used for both transcripts, then a qualitative comparison of RNA levels is adequate and decreases the cost of the initial diagnosis. Higher mutant form to wild-type ratios are correlated with higher risk whether RNA levels are compared qualitatively or quantitatively.

Additional Uses

The sequence-specific enzymatic nucleic acid molecules of the instant invention can also have many of the same applications for the study of RNA that DNA restriction endonucleases have for the study of DNA (Nathans *et al.*, 1975 *Ann. Rev. Biochem.* 44:273). For example, the pattern of restriction fragments can be used to establish sequence relationships between two related RNAs, and large RNAs could be specifically cleaved to fragments of a size more useful for study. The ability to engineer sequence specificity of the enzymatic nucleic acid molecule is ideal for cleavage of RNAs of unknown sequence. Applicant describes the use of nucleic acid molecules to down-regulate gene expression of target genes in bacterial, microbial, fungal, viral, and eukaryotic systems including plant, or mammalian cells.

All patents and publications mentioned in the specification are indicative of the levels of skill of those skilled in the art to that the invention pertains. All references cited in this disclosure are incorporated by reference to the same extent as if each reference had been incorporated by reference in its entirety individually.

One skilled in the art would readily appreciate that the present invention is well adapted to carry out the objects and obtain the ends and advantages mentioned, as well as those inherent therein. The methods and compositions described herein as presently representative of preferred embodiments are exemplary and are not intended as limitations on the scope of the invention. Changes therein and other uses will occur to those skilled in the

art, that are encompassed within the spirit of the invention, are defined by the scope of the claims.

It will be readily apparent to one skilled in the art that varying substitutions and modifications can be made to the invention disclosed herein without departing from the scope and spirit of the invention. Thus, such additional embodiments are within the scope of the present invention and the following claims.

The invention illustratively described herein suitably can be practiced in the absence of any element or elements, limitation or limitations that are not specifically disclosed herein. The terms and expressions that have been employed are used as terms of description and not of limitation, and there is no intention that in the use of such terms and expressions of excluding any equivalents of the features shown and described or portions thereof, but it is recognized that various modifications are possible within the scope of the invention claimed. Thus, it should be understood that although the present invention has been specifically disclosed by preferred embodiments, optional features, modification and variation of the concepts herein disclosed can be resorted to by those skilled in the art, and that such modifications and variations are considered to fall within the scope of this invention as defined by the description and the appended claims.

In addition, where features or aspects of the invention are described in terms of Markush groups or other grouping of alternatives, those skilled in the art will recognize that the invention is also thereby described in terms of any individual member or subgroup of members of the Markush group or other group.

Other embodiments are within the claims that follow.

TABLE I

Characteristics of naturally occurring ribozymes

Group I Introns

- Size: ~150 to >1000 nucleotides.
- Requires a U in the target sequence immediately 5' of the cleavage site.
- Binds 4-6 nucleotides at the 5'-side of the cleavage site.
- Reaction mechanism: attack by the 3'-OH of guanosine to generate cleavage products with 3'-OH and 5'-guanosine.
- Additional protein cofactors required in some cases to help folding and maintenance of the active structure.
- Over 300 known members of this class. Found as an intervening sequence in *Tetrahymena thermophila* rRNA, fungal mitochondria, chloroplasts, phage T4, blue-green algae, and others.
- Major structural features largely established through phylogenetic comparisons, mutagenesis, and biochemical studies [i,ii].
- Complete kinetic framework established for one ribozyme [iii,iv,v,vi].
- Studies of ribozyme folding and substrate docking underway [vii,viii,ix].
- Chemical modification investigation of important residues well established [x,xi].
- The small (4-6 nt) binding site may make this ribozyme too non-specific for targeted RNA cleavage, however, the *Tetrahymena* group I intron has been used to repair a "defective" β -galactosidase message by the ligation of new β -galactosidase sequences onto the defective message [xii].

RNase P RNA (M1 RNA)

- Size: ~290 to 400 nucleotides.
- RNA portion of a ubiquitous ribonucleoprotein enzyme.
- Cleaves tRNA precursors to form mature tRNA [xiii].
- Reaction mechanism: possible attack by M^{2+} -OH to generate cleavage products with 3'-OH and 5'-phosphate.
- RNase P is found throughout the prokaryotes and eukaryotes. The RNA subunit has been sequenced from bacteria, yeast, rodents, and primates.
- Recruitment of endogenous RNase P for therapeutic applications is possible through hybridization of an External Guide Sequence (EGS) to the target RNA [xiv,xv].
- Important phosphate and 2' OH contacts recently identified [xvi,xvii].

Group II Introns

- Size: >1000 nucleotides.
- Trans cleavage of target RNAs recently demonstrated [xviii,xix].
- Sequence requirements not fully determined.
- Reaction mechanism: 2'-OH of an internal adenosine generates cleavage products with 3'-OH and a "lariat" RNA containing a 3'-5' and a 2'-5' branch point.

- Only natural ribozyme with demonstrated participation in DNA cleavage [xx,xxi] in addition to RNA cleavage and ligation.
- Major structural features largely established through phylogenetic comparisons [xxii].
- Important 2' OH contacts beginning to be identified [xxiii]
- Kinetic framework under development [xxiv]

Neurospora VS RNA

- Size: ~144 nucleotides.
- Trans cleavage of hairpin target RNAs recently demonstrated [xxv].
- Sequence requirements not fully determined.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- Binding sites and structural requirements not fully determined.
- Only 1 known member of this class. Found in Neurospora VS RNA.

Hammerhead Ribozyme

(see text for references)

- Size: ~13 to 40 nucleotides.
- Requires the target sequence UH immediately 5' of the cleavage site.
- Binds a variable number nucleotides on both sides of the cleavage site.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- 14 known members of this class. Found in a number of plant pathogens (virusoids) that use RNA as the infectious agent.
- Essential structural features largely defined, including 2 crystal structures [xxvi,xxvii]
- Minimal ligation activity demonstrated (for engineering through *in vitro* selection) [xxviii]
- Complete kinetic framework established for two or more ribozymes [xxix].
- Chemical modification investigation of important residues well established [xxx].

Hairpin Ribozyme

- Size: ~50 nucleotides.
- Requires the target sequence GUC immediately 3' of the cleavage site.
- Binds 4-6 nucleotides at the 5'-side of the cleavage site and a variable number to the 3'-side of the cleavage site.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- 3 known members of this class. Found in three plant pathogen (satellite RNAs of the tobacco ringspot virus, arabis mosaic virus and chicory yellow mottle virus) which uses RNA as the infectious agent.
- Essential structural features largely defined [xxxi,xxxii,xxxiii,xxxiv]
- Ligation activity (in addition to cleavage activity) makes ribozyme amenable to engineering through *in vitro* selection [xxxv]
- Complete kinetic framework established for one ribozyme [xxxvi].
- Chemical modification investigation of important residues begun [xxxvii,xxxviii].

Hepatitis Delta Virus (HDV) Ribozyme

- Size: ~60 nucleotides.
- Trans cleavage of target RNAs demonstrated [xix].
- Binding sites and structural requirements not fully determined, although no sequences 5' of cleavage site are required. Folded ribozyme contains a pseudoknot structure [xi].
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- Only 2 known members of this class. Found in human HDV.
- Circular form of HDV is active and shows increased nuclease stability [xii]

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Table II

Table II:

A. 2.5 μ mol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time* RNA
Phosphoramidites	6.5	163 μ L	45 sec	2.5 min	7.5 min
S-Ethyl Tetrazole	23.8	238 μ L	45 sec	2.5 min	7.5 min
Acetic Anhydride	100	233 μ L	5 sec	5 sec	5 sec
N-Methyl Imidazole	186	233 μ L	5 sec	5 sec	5 sec
TCA	176	2.3 mL	21 sec	21 sec	21 sec
Iodine	11.2	1.7 mL	45 sec	45 sec	45 sec
Beaucage	12.9	645 μ L	100 sec	300 sec	300 sec
Acetonitrile	NA	6.67 mL	NA	NA	NA

B. 0.2 μ mol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time* RNA
Phosphoramidites	15	31 μ L	45 sec	233 sec	465 sec
S-Ethyl Tetrazole	38.7	31 μ L	45 sec	233 min	465 sec
Acetic Anhydride	655	124 μ L	5 sec	5 sec	5 sec
N-Methyl Imidazole	1245	124 μ L	5 sec	5 sec	5 sec
TCA	700	732 μ L	10 sec	10 sec	10 sec
Iodine	20.6	244 μ L	15 sec	15 sec	15 sec

Table II

Beaucage	7.7	232 μ L	100 sec	300 sec	300 sec
Acetonitrile	NA	2.64 mL	NA	NA	NA
C. 0.2 μ mol Synthesis Cycle 96 well Instrument					
Reagent	Equivalents	Amount	Wait Time*	Wait Time* 2'-O-methyl	Wait Time* Rib
	DNA/2'-O-methyl/Ribo	DNA/2'-O-methyl/Ribo	DNA		
Phosphoramidites	22/33/66	40/60/120 μ L	60 sec	180 sec	360sec
S-Ethyl Tetrazole	70/105/210	40/60/120 μ L	60 sec	180 min	360 sec
Acetic Anhydride	265/265/265	50/50/50 μ L	10 sec	10 sec	10 sec
N-Methyl Imidazole	502/502/502	50/50/50 μ L	10 sec	10 sec	10 sec
TCA	238/475/475	250/500/500 μ L	15 sec	15 sec	15 sec
Iodine	6.8/6.8/6.8	80/80/80 μ L	30 sec	30 sec	30 sec
Beaucage	34/51/51	80/120/120	100 sec	200 sec	200 sec
Acetonitrile	NA	1150/1150/1150 μ L	NA	NA	NA

* Wait time does not include contact time during delivery.

Table III

Table III: WNV Hammerhead Ribozyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	R# Seq ID
30	GACAAACU U AGUAGUGU	1	ACACUACU CUGAUGAG GCCGUUAGGC CGAA AGUUUGUC	15309
31	ACAAACUU A GUAGUGUU	2	AACACUAC CUGAUGAG GCCGUUAGGC CGAA AAGUUUGU	15310
34	AACUUAGU A GUGUUUGU	3	ACAAACAC CUGAUGAG GCCGUUAGGC CGAA ACUAAGUU	15311
39	AGUAGUGU U UGUGAGGA	4	UCCUCACA CUGAUGAG GCCGUUAGGC CGAA ACACUACU	15312
40	GUAGUGUU U GUGAGGAU	5	AUCCUCAC CUGAUGAG GCCGUUAGGC CGAA AACACUAC	15313
49	GUGAGGAU U AACACAA	6	UUGUUUGU CUGAUGAG GCCGUUAGGC CGAA AUCCUCAC	15314
50	UGAGGAU A ACAACAAU	7	AUUGUUGU CUGAUGAG GCCGUUAGGC CGAA AAUCCUCA	15315
59	ACAACAAU U AACACAGU	8	ACUGUGU CUGAUGAG GCCGUUAGGC CGAA AUUGUUGU	15316
60	CAACAAU A ACACAGU	9	CACUGUGU CUGAUGAG GCCGUUAGGC CGAA AAUUGUUG	15317
77	CGAGCUGU U UCUAGCA	10	UGCUAAGA CUGAUGAG GCCGUUAGGC CGAA ACAGCUCG	15318
78	GAGCUGUU U CUUAGCAC	11	GUGCUAAG CUGAUGAG GCCGUUAGGC CGAA AACAGCUC	15319
79	AGCUGUUU C UUAGCAG	12	CGUGCUAA CUGAUGAG GCCGUUAGGC CGAA AACAGCUC	15320
81	CUUUGUUU U AGCACGAA	13	UUCUGUCU CUGAUGAG GCCGUUAGGC CGAA AGAACAG	15321
82	UGUUUCUU A GCACGAG	14	CUUCGUGC CUGAUGAG GCCGUUAGGC CGAA AAGAAACA	15322
93	ACGAAGAU C UCGAUGUC	15	GACAUCCA CUGAUGAG GCCGUUAGGC CGAA AUCUUCGU	15323
95	GAAGAUCU C GAUGUCUA	16	UAGACAUC CUGAUGAG GCCGUUAGGC CGAA AGAUCUUC	15324
101	CUUGAUGU C UAAGAAAC	17	GUUUCUUA CUGAUGAG GCCGUUAGGC CGAA ACAUCGAG	15325
103	CGAUGUCU A AGAAACCA	18	UGGUUUCU CUGAUGAG GCCGUUAGGC CGAA AGACUUCG	15326
138	CGGGCUGU C AAUAGUCU	19	AGCAUAUU CUGAUGAG GCCGUUAGGC CGAA ACAGCCCG	15327
142	CUGUCAAU A UGCUAAA	20	UUUUAGCA CUGAUGAG GCCGUUAGGC CGAA AUUGACAG	15328
147	AAUAGUCU A AAACCGG	21	CCGCGUUU CUGAUGAG GCCGUUAGGC CGAA AGCAUAUU	15329
170	CCGCGUGU U GUCCUUGA	22	UCAAGGAC CUGAUGAG GCCGUUAGGC CGAA ACACCGG	15330
173	CGUGUUGU C CUUGAUUG	23	CAAUCAAG CUGAUGAG GCCGUUAGGC CGAA ACAACACG	15331
176	GUUGUCCU U GAUUGGAC	24	GUCCAAUC CUGAUGAG GCCGUUAGGC CGAA AGGACAAAC	15332
180	UCCUUGAU U GGACUGAA	25	UUCAGUCC CUGAUGAG GCCGUUAGGC CGAA AUCAGGA	15333
196	AGAGGCU A UGUUGAGC	26	GCUCAACA CUGAUGAG GCCGUUAGGC CGAA AGCCUUCU	15334
200	GGCUAUGU U GAGCCUGA	27	UCAGGCUC CUGAUGAG GCCGUUAGGC CGAA ACAUAGCC	15335
210	AGCCUGAU C GACGGCAA	28	UUGCCGUC CUGAUGAG GCCGUUAGGC CGAA AUCAGGCU	15336
228	GGGCCAAU A CGAUUUGU	29	ACAAAUCC CUGAUGAG GCCGUUAGGC CGAA AUUGGCC	15337
233	AAUACGAU U UGUGUUGG	30	CCAACACA CUGAUGAG GCCGUUAGGC CGAA AUCGUUUU	15338
234	AUACGAU U GUGUUGGC	31	GCCAACAC CUGAUGAG GCCGUUAGGC CGAA AAUCGUUU	15339
239	AUUUGUGU U GGCUCUCU	32	AGAGAGCC CUGAUGAG GCCGUUAGGC CGAA ACACAAU	15340
244	UGUUGGCU C UCUUGGCG	33	CGCCAAGA CUGAUGAG GCCGUUAGGC CGAA AGCCAACA	15341
246	UUGGCUCU C UUGGCGUU	34	AACGCCAA CUGAUGAG GCCGUUAGGC CGAA AGAGCCAA	15342
248	GGCUCUCU U GCGUUCU	35	AGAACGCC CUGAUGAG GCCGUUAGGC CGAA AGAGAGCC	15343
254	CUUGGCGU U CUUCAGGU	36	ACCUGAAG CUGAUGAG GCCGUUAGGC CGAA ACGCCAAG	15344
255	UUGGCGUU C UUCAGGUU	37	AACCUGAA CUGAUGAG GCCGUUAGGC CGAA AACGCCAA	15345
257	GGCGUUCU U CAGGUUCA	38	UGAACCGU CUGAUGAG GCCGUUAGGC CGAA AGAACGCC	15346
258	GCGUUCUU C AGGUUCAC	39	GUGAACCU CUGAUGAG GCCGUUAGGC CGAA AAGAACGC	15347
263	CUUCAGGU U CACAGCAA	40	UUGCUGUG CUGAUGAG GCCGUUAGGC CGAA ACCUGAAG	15348
264	UUCAGGUU C ACAGCAAU	41	AUUGCUGU CUGAUGAG GCCGUUAGGC CGAA AACUGAAG	15349
273	ACAGCAAU U GCUCGAC	42	GUCGAGC CUGAUGAG GCCGUUAGGC CGAA AUUGCUGU	15350
277	CAAUUGCU C CGACCGA	43	UCGGGUC CUGAUGAG GCCGUUAGGC CGAA AGCAAUUG	15351
298	UGCUGAU C GAUGGAGA	44	UCUCAAUC CUGAUGAG GCCGUUAGGC CGAA AUCCAGCA	15352
339	AAACACCU U CUGAGUUU	45	AAACUCAG CUGAUGAG GCCGUUAGGC CGAA AGGUGUUU	15353
340	AACACCUU C UGAGUUUU	46	AAACUCA CUGAUGAG GCCGUUAGGC CGAA AAGGUGUU	15354
346	UUCUGAGU U UUAAGAAG	47	CUUCUUA CUGAUGAG GCCGUUAGGC CGAA ACUCAGAA	15355
347	UCUGAGUU U UAGAAGG	48	CCUUCUUA CUGAUGAG GCCGUUAGGC CGAA AACUCAGA	15356
348	CUGAGUUU U AAGAAGGA	49	UCCUUCUU CUGAUGAG GCCGUUAGGC CGAA AAACUCAG	15357
349	UGAGUUUU A AGAAGGAA	50	UUCUUCUU CUGAUGAG GCCGUUAGGC CGAA AAACUCA	15358
360	AAGGAACU A GGGACCUU	51	AAGGUCCC CUGAUGAG GCCGUUAGGC CGAA AGUUCUUU	15359
368	AGGAGACU U GACCAGUG	52	CACUGGUC CUGAUGAG GCCGUUAGGC CGAA AGGUCCCU	15360
379	CCAGUGCU A UCAAUCCG	53	CCGAUUGA CUGAUGAG GCCGUUAGGC CGAA AGCACUGG	15361
381	AGUGCUAU C AAUCGGCG	54	CGCCGAUU CUGAUGAG GCCGUUAGGC CGAA AUGACACU	15362
385	CUAUCAAU C GCGGAGC	55	GUCCGCCC CUGAUGAG GCCGUUAGGC CGAA AUUGAUAG	15363
395	GCGGAGCU C AAAACAAA	56	UUUGUUUU CUGAUGAG GCCGUUAGGC CGAA AGUCCCGC	15364
429	ACCGGAUU U GCAGUCAU	57	AUGACUGC CUGAUGAG GCCGUUAGGC CGAA AUUCCGGU	15365
435	AUUGCAGU C AUGAUUGG	58	CCAAUCAU CUGAUGAG GCCGUUAGGC CGAA ACUGCAAU	15366
441	GUCAUGAU U GGCCUGAU	59	AUCAGGCC CUGAUGAG GCCGUUAGGC CGAA AUCAUAGC	15367

Table III

450	GGCCUGAU C GCCAGCGU	60	ACGCUGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGCC	15368
459	GCCAGCGU A GGAGCAGU	61	ACUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCUGGC	15369
468	GGAGCAGU U ACCCUCUC	62	GAGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUC	15370
469	GAGCAGUU A CCCUCUCU	63	AGAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA AACTUGCUC	15371
474	GUUACCCU C UCUAACUU	64	AAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUAA	15372
476	UACCCUCU C UAACUUC	65	GGAAGUUA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGUA	15373
478	CCCUCUCU A ACUUCCAA	66	UUGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGGG	15374
482	CUCUAACU U CCAAGGGA	67	UCCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAG	15375
483	UCUAACUU C CAAGGGAA	68	UUCUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGA	15376
507	AUGACGGU A AAUGCUAC	69	GUAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAU	15377
514	UAAAUAGU A CUGACGUC	70	GACGUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUUA	15378
522	ACUGACGU C ACAGAUGU	71	ACAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAGU	15379
531	ACAGAUGU C AUCACGAU	72	AUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCUGU	15380
534	GAUGUCAU C ACGAUUCC	73	GGAUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACAUC	15381
540	AUCACGAU U CCAACAGC	74	GCUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUCGUGAU	15382
541	UACGAUU C CAACAGCU	75	AGCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGUGA	15383
564	AAGAACCU A UGCAUUGU	76	ACAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCUU	15384
570	CUAUGCAU U GUCAGAGC	77	GCUCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAG	15385
573	UGCAUUGU C AGAGCAAU	78	AUUGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGA	15386
593	UGUGGGAU A CAUGUGCG	79	CGCACAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCCACA	15387
607	GCGAUGAU A CUAUCACU	80	AGUGAUAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCGC	15388
610	AUGAUACU A UCACUUAU	81	AUAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUAUCAU	15389
612	GAUACUUA C ACUUAUGA	82	UCAUAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAUC	15390
616	CUAUCACU U AUGAAUGC	83	GCAUUCUA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUAG	15391
617	UAUCACUU A UGAAUGCC	84	GGCAUUCA CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUA	15392
635	AGUGCUGU C GGCUGGUA	85	UACCAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCACU	15393
643	CGGCUGGU A AUGAUCCA	86	UGGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCG	15394
649	GUAAUGAU C CAGAAGAC	87	GUCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUAU	15395
660	GAAGACAU C GACUGUUG	88	CAACAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUUC	15396
667	UCGACUGU U GGUGCACA	89	UGUGCACC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUCGA	15397
680	CACAAAGU C AGCAGUCU	90	AGACUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUG	15398
687	UCAGCAGU C UACGUCAG	91	CUGACGUA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUGA	15399
689	AGCAGUCU A CGUCAGGU	92	ACCUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGACUGCU	15400
693	GUCUACGU C AGGUUUGG	93	CCAUAACU CUGAUGAG	GCCGUUAGGC	CGAA ACGUAGAC	15401
698	CGUCAGGU A UGGAAGAU	94	AUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUGACG	15402
725	ACGCCACU C AAGACGCA	95	UGGUCUUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCGU	15403
736	GACGCAU C GGAGGUCA	96	UGACCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCGUC	15404
743	UCGGAGGU C ACUGACAG	97	CUGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCGA	15405
775	AAAGCACU C UAGCGAAC	98	GUUUCGUA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUUU	15406
777	AGCACUCU A GCGAACAA	99	UUGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGCU	15407
796	AGGGGGCU U GGAUGGAC	100	GUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCU	15408
824	CACAAGGU A UUUUGUAA	101	UUACCAA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGUG	15409
826	CAAGGUUU U UGUUAAA	102	UUUUACCA CUGAUGAG	GCCGUUAGGC	CGAA AUACCUUG	15410
827	AAGGUUUU U GGUAAAA	103	UUUUUACC CUGAUGAG	GCCGUUAGGC	CGAA AAUACCUU	15411
831	UAUUUGGU A AAAACAGA	104	UCUGUUUU CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUA	15412
842	AACAGAAU C AUGGAUCU	105	AGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGUU	15413
849	UCAUGGAU C UGAGGAA	106	UUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUGA	15414
851	AUGGAUCU U GAGGAACC	107	GUUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCA	15415
866	CCUGGAU A UGCCCUGG	108	CCAGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGGG	15416
885	GCAGCCGU C AUUGGUUG	109	CAACCAAU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUCG	15417
888	GCCGUCAU U GGUUGGAU	110	AUCCAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGACGGC	15418
892	UCAUUGGU U GGAUGCUU	111	AAGCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUGA	15419
900	UGGAUGCU U GGGAGCAA	112	UUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCCA	15420
924	CAGAGAGU U GUGUUUGU	113	ACAAACAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCUG	15421
929	AGUUGUGU U UGUCGUC	114	GCACGACA CUGAUGAG	GCCGUUAGGC	CGAA ACACAACU	15422
930	GUUGUGUU U GUCGUGCU	115	AGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA AACACAAC	15423
933	GUGUUUGU C GUGCUAUU	116	AAUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAACAC	15424
939	GUCGUGCU A UUGCUUUU	117	AAAAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCACGAC	15425
941	CGUGCUAU U GCUUUUGG	118	CAAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGCACG	15426
945	CUAUUGCU U UUGGUGGC	119	GCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUAG	15427
946	UAUUGCUU U UGGUGGCC	120	GGCCACCA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAAUA	15428
947	AUUGCUUU U GGUGGCC	121	GGGCCACC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAAU	15429
961	CCCCAGCU U ACAGCUUC	122	GAAGCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGGG	15430

Table III

962	CCCAGCUU A CAGCUUCA	123	UGAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGGG	15431
968	UUACAGCU U CAACUGCC	124	GGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUGUAA	15432
969	UACAGCUU C AACUGCCU	125	AGGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGUA	15433
978	AACUGCCU U GGAUUGAG	126	CUCAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGUU	15434
998	CAGAGACU U CUUGGAAG	127	CUUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCUCUG	15435
999	AGAGACUU C UUGGAAGG	128	CCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCUCU	15436
1001	AGACUUCU U GGAAGGAG	129	CUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUCU	15437
1013	AGGAGUGU C UGGAGCAA	130	UUGCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCU	15438
1033	GGGUGGAU U UGGUUCUC	131	GAGAACCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCACCC	15439
1034	GGUGGAUU U GGUUCUCG	132	CGAGAACC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCACC	15440
1038	GAUUUGGU U CUCGAAGG	133	CCUUCGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUC	15441
1039	AUUUGGUU C UCGAAGGC	134	GCCUUCGA CUGAUGAG	GCCGUUAGGC	CGAA AACCAAU	15442
1041	UUGGUUCU C GAAGGCGA	135	UCGCCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAACCAA	15443
1063	GCGUGACU A UCAUGUCU	136	AGACAUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCACGC	15444
1065	GUGACUUA C AUGUCUAA	137	UUAGACAU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUCAC	15445
1070	UAUCAUGU C UAAGGACA	138	UGUCCUUA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUA	15446
1072	UCAUGUCU A AGGACAAG	139	CUUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGA	15447
1084	ACAAGCCU A CCAUCGAU	140	AUCGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGU	15448
1089	CCUACCAU C GAUGUGAA	141	UUCACAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGUAGG	15449
1108	UGAUGAAU A UGGAGGCG	142	CGCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUTUCAUA	15450
1119	GAGGGGGU C AACCGGC	143	GCCAGGUU CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCUC	15451
1134	GCAGAGGU C CGCAGUUA	144	UAACUGCG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUGC	15452
1141	UCCGCAGU U AUUGCUAU	145	AUAGCAAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCGGA	15453
1142	CCGCAGUU A UUGCUAUU	146	AAUAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AACUGCGG	15454
1144	GCAGUUAU U GCUAUUUG	147	CAAAUAGC CUGAUGAG	GCCGUUAGGC	CGAA AUAACUGC	15455
1148	UUAUUGCU A UUUGCUUA	148	UAGCCAAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUAA	15456
1150	AUUGCUAU U UGGCUACC	149	GGUAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGCAAU	15457
1151	UUGCUAUU U GGUUACCG	150	CGGUAGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUAGCAA	15458
1156	AUUUGGCU A CCGUCAGC	151	GCUGACGG CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAAU	15459
1161	GCUACCGU C AGCGAUCU	152	AGAUCGCU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAGC	15460
1168	UCAGCGAU C UCUCACC	153	GGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCGCUGA	15461
1170	AGCGAUCU C UCCACCAA	154	UUGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUCGCU	15462
1172	CGAUCUCU C CACCAAAG	155	CUUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUCUG	15463
1207	GAGAAGCU C ACAAUGAC	156	GUCAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCUC	15464
1234	ACCCAGCU U UUGUGUGC	157	GCACACAA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGGU	15465
1235	CCCAGCUU U UGUGUGCA	158	UGCACACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGGG	15466
1236	CCAGCUUU U GUGUGCAG	159	CUGCACAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUGG	15467
1286	CUGCGGAU U AUUUGGCA	160	UGCCAAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCGCAG	15468
1287	UGCGGAUU A UUUGGCAA	161	UUGCCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGCA	15469
1289	CGGAUUUU U UGGCAAAG	162	CUUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAUCCG	15470
1290	GGAUUUUU U GGCAAAGG	163	CCUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUAUCC	15471
1305	GGAAGCAU U GACACAUG	164	CAUGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUCC	15472
1322	CGCCAAAU U UGCCUGCU	165	AGCAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCG	15473
1323	GCCAAAUU U GCCUGCUC	166	GAGCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGCG	15474
1331	UGCCUGCU C UACCAAGG	167	CCUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGCA	15475
1333	CCUGCUCU A CCAAGGCA	168	UGCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGG	15476
1344	AAGGCAAU A GGAAGAAC	169	GUUCUUCG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCUU	15477
1356	AGAACCAU C UUGAAAGA	170	UCUUUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUCU	15478
1358	AACCAUCU U GAAAGAGA	171	UCUCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGUU	15479
1369	AAGAGAAU A UCAAGUAC	172	GUACUUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUCUU	15480
1371	GAGAAUUA C AAGUACGA	173	UCGUACUU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUCU	15481
1376	UAUCAAGU A CGAAGUGG	174	CCACUUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUUGAUA	15482
1389	GUGGCCAU U UUUGUCCA	175	UGGACAAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCAC	15483
1390	UGGCCAUU U UUGUCCA	176	AUGGACAA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCCA	15484
1391	GGCCAUUU U UGUCCAUG	177	CAUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGCC	15485
1392	GCCAUUUU U GUCCAUGG	178	CCAUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGGC	15486
1395	AUUUUUGU C CAUGGACC	179	GGUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAUA	15487
1408	GACCAACU A CUGUGGAG	180	CUCCACAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGUC	15488
1418	UGUGGAGU C GCACGGAA	181	UUCGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCACA	15489
1430	CGGAAACU A CUCCACAC	182	GUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUCC	15490
1433	AAACUACU C CACACAGG	183	CCUGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUUU	15491
1443	ACACAGGU U GGAGCCAC	184	GUGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCUGUGU	15492
1453	GAGCCACU C AGGCAGGG	185	CCUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCUC	15493

Table III

1466	AGGGAGAU U CAGCAUCA	186	UGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCCU	15494
1467	GGGAGAUU C AGCAUCAC	187	GUUGAGCU CUGAUGAG	GCCGUUAGGC	CGAA AAUCUCC	15495
1473	UUCAGCAU C ACUCCUGC	188	GCAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAA	15496
1477	GCAUCACU C CUGCGGCG	189	CGCCGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGC	15497
1489	CGGCGCCU U CAUACACA	190	UGUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGCCG	15498
1490	GGCGCCU C AUACACAC	191	GUGUGUAU CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGCC	15499
1493	GCCUUCAU A CACACUAA	192	UUAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGGC	15500
1500	UACACACU A AAGCUUGG	193	CCAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGUA	15501
1506	CUAAAGCU U GGAGAAUA	194	UAUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUAU	15502
1514	UGGAGAAU A UGGAGAGG	195	CCUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUCCA	15503
1547	ACCACGGU C AGGGAUUG	196	CAAUCCCU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUGGU	15504
1554	UCAGGGAU U GACACCAA	197	UUGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGA	15505
1568	CAUUGCAU A CUACGUGA	198	UCACGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUG	15506
1571	UGCAUACU A CGUGAUGA	199	UUAUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUGCA	15507
1584	AUGACUGU U GGAACAAA	200	UUUGUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUCAU	15508
1598	AAAGACGU U CUUGGUCC	201	GGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCUUU	15509
1599	AAGACGUU C UUGGUCCA	202	UGGACCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUCUU	15510
1601	GACGUUCU U GGUCCAUC	203	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUC	15511
1605	UUCUUGGU C CAUCGUGA	204	UCACGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAAGAA	15512
1609	UGGUCCAU C GUGAUGG	205	CCACACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	15513
1619	UGAGUGGU U CAUGGACC	206	GGUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACUCA	15514
1620	GAGUGGUU C AUGGACCU	207	AGGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AACCACUC	15515
1629	AUGGACCU C AACCUCCT	208	GGGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCAU	15516
1635	CUCAACCU C CCUUGGAG	209	CUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGAG	15517
1639	ACCUCCTU U GGAGCAGU	210	ACUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGGU	15518
1657	CUGGAAGU A CUGUGUGG	211	CCACACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAG	15519
1682	AGAGACGU U AAUGGAGU	212	ACUCCAUI CUGAUGAG	GCCGUUAGGC	CGAA ACGUCUCU	15520
1683	GAGACGUU A AUGGAGUU	213	AACUCCAUI CUGAUGAG	GCCGUUAGGC	CGAA AACGUCUC	15521
1691	AAUGGAGU U UGAGGAAC	214	GUUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAUI	15522
1692	AUGGAGUU U GAGGAACC	215	GGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCCAUI	15523
1718	GAAGCAGU C UGUGAUG	216	CUAUCACA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUUC	15524
1725	UCUGUGAU A GCAUUGGG	217	CCCAUUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCACAGA	15525
1730	GAUAGCAU U GGGCUCAC	218	GUGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAUC	15526
1736	AUUGGGCU C ACAAGAGG	219	CCUCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAUI	15527
1750	AGGGAGCU C UGCAUCAA	220	UUGAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCCCU	15528
1756	CUCUGCAU C AAGCUUUG	221	CAAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGAG	15529
1762	AUCAAGCU U UGGCUGGA	222	UCCAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGAU	15530
1763	UCAAGCUU U GGCUGGAG	223	CUCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGA	15531
1776	GGAGCCAU U CCUGUGGA	224	UCCACAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCC	15532
1777	GAGCCAUU C CUGUGGAA	225	UUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCUC	15533
1787	UGUGGAU U UUCAAGCA	226	UGCUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCCACA	15534
1788	GUGGAUUU U UCAAGCAA	227	UUGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAC	15535
1789	UGGAUUUU U CAAGCAAC	228	GUUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUAUCA	15536
1790	GGAAUUUU C AAGCAACA	229	UGUUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUCC	15537
1803	AACACUGU C AAGUUGAC	230	GUCAACUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGUU	15538
1808	UGUCAAGU U GACGUCGG	231	CCGACGUC CUGAUGAG	GCCGUUAGGC	CGAA ACTUGACA	15539
1814	GUUGACGU C GGGUCAUU	232	AAUGACCC CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAAC	15540
1819	CGUCGGGU C AUUUGAAG	233	UUCACAAU CUGAUGAG	GCCGUUAGGC	CGAA ACCCGACG	15541
1822	CGGGUCAU U UGAAGUGU	234	ACACUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGACCCG	15542
1823	GGGUCAUU U GAAGUGUA	235	UACACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGACCC	15543
1831	UGAAGUGU A GAGUGAAG	236	CUUACUUC CUGAUGAG	GCCGUUAGGC	CGAA ACACUUCA	15544
1850	GGAAAAU U GCAGUUGA	237	UCAACUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUUC	15545
1856	AUUGCAGU U GAAGGGAA	238	UUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAAU	15546
1871	AACAACCU A UGGCGUCU	239	AGAGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGUU	15547
1878	UAUGGCGU C UGUUCAA	240	UUUGACA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAUA	15548
1882	GCGUCUGU U CAAAGGCU	241	AGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGACGC	15549
1883	CGUCUGUU C AAAGGCUU	242	AAGCCUUU CUGAUGAG	GCCGUUAGGC	CGAA AACAGACG	15550
1891	CAAAGGCU U UCAAGUUU	243	AAACUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUUG	15551
1892	AAAGGCUU U CAAGUUUC	244	GAACUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUUU	15552
1893	AAGGCUUU C AAGUUUCU	245	AGAAACUU CUGAUGAG	GCCGUUAGGC	CGAA AAAGCCUU	15553
1898	UUUCAAGU U UCUGGGGA	246	UCCCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGAAA	15554
1899	UUCAAGUU U CUUGGGAC	247	GUCCCAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUUGAA	15555
1900	UCAAGUUU C UUGGGACU	248	AGUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAACUUGA	15556

Table III

1902	AAGUUUCU U GGGACUCC	249	GGAGUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAACU	15557
1909	UUGGGACU C CCGCAGAC	250	GUCUGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCCAA	15558
1924	ACACAGGU C ACGGCACU	251	AGUGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUGUGU	15559
1940	UGUGGUGU U GGAUUGC	252	GCAAUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCACA	15560
1946	GUUGGAU U GCAGUACA	253	UGUACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCAAC	15561
1952	AUUGCAGU A CACUGGCA	254	UGCCAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCAAU	15562
1972	AUGGACCU U GCAAAGUU	255	AACUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCCAU	15563
1980	UGCAAAGU U CCUAUCUC	256	GAGAUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGCA	15564
1981	GCAAAGUU C CUUUCUG	257	CGAGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUUGC	15565
1984	AAGUUCCU A UCUCGUCA	258	UGACGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAACUU	15566
1986	GUUCCUUA C UUGUCAGU	259	ACUGACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGGAAC	15567
1988	UCCUAUCU C GUCAGUGG	260	CCACUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUAGGA	15568
1991	UAUCUCGU C AGUGGCUU	261	AAGCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGAGAU	15569
1999	CAGUGGCU U CAUUGAAC	262	GUUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCACUG	15570
2000	AGUGGCUU C AUUGAACG	263	CGUUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCCACU	15571
2003	GGCUUACU U GAACGACC	264	GGUCGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAAGCC	15572
2013	AACGACCU A ACGCAGU	265	ACUGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCGUU	15573
2030	GGGCAGAU U GGUCACUG	266	CAGUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUGCCC	15574
2034	AGAUUGGU C ACUGUCAA	267	UUGACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAUCU	15575
2040	GUCACUGU C AACCCUUU	268	AAAGGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUGAC	15576
2047	UCAACCCU U UUGUUUCA	269	UGAAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUUGA	15577
2048	CAACCCUU U UGUUUCAG	270	CUGAAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGUUUG	15578
2049	AACCCUUU U GUUUCAGU	271	ACUGAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGGUUU	15579
2052	CCUUUUGU U UCAGUGGC	272	GCCACUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAAAGG	15580
2053	CUUUUGUU U CAGUGGCC	273	GGCCACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAAAAG	15581
2054	UUUUGUUU C AGUGGCCA	274	UGGCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACAAAA	15582
2074	CCAACGCU A AGGUCCUG	275	CAGGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGUUGG	15583
2079	GCUAAGGU C CUGAUUGA	276	UCAAUACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUAGC	15584
2085	GUCCUGAU U GAAUUGGA	277	UCCAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAGGAC	15585
2090	GAUUGAAU U GGAACCAC	278	GUGGUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCAUUC	15586
2102	ACCACCCU U UGGAGACU	279	AGUCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGGU	15587
2103	CCACCCUU U GGAGACUC	280	GAGUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGUGG	15588
2111	UGGAGACU C AUACAUAG	281	CUAUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUCCA	15589
2114	AGACUCAU A CAUAGUGG	282	CCACUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGUCU	15590
2118	UCAUACAU A GUGGUGGG	283	CCCACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUAUGA	15591
2145	CAACAGAU C AAUACCCA	284	UGGUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUGUUG	15592
2149	AGAUCAAU C ACCAUUGG	285	CCAAUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGAUCU	15593
2155	AUCACCAU U GGCACAAG	286	CUUGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGUGAU	15594
2165	GCACAAGU C UGGAAGCA	287	UCUUUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUGC	15595
2178	AGCAGCAU U GGCAAAGC	288	GCUUUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGUCU	15596
2189	CAAAGCCU U UACAACCA	289	UGGUUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCUUUG	15597
2190	AAAGCCUU U ACAACCAC	290	GUGGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGCUUU	15598
2191	AAGCCUUU A CAACCACC	291	GGUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGGCUU	15599
2202	ACCACCCU C AAAGGAGC	292	GCUCUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGGU	15600
2220	CAGAGACU A GCCGCUCU	293	AGAGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUCUG	15601
2227	UAGCCGCU C UAGGAGAC	294	GUCUCCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGCUA	15602
2229	GCCGCUCU A GGAGACAC	295	GUGUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCGGC	15603
2242	ACACAGCU U GGGACUUU	296	AAAGUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGUGU	15604
2249	UUGGGACU U UGGAUCAG	297	CUGAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCCAA	15605
2250	UGGGACUU U GGAUCAGU	298	ACUGAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCCCA	15606
2255	CUUUGGAU C AGUUGGAG	299	CUCCAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCAAG	15607
2259	GGAUCAGU U GGAGGGGU	300	ACCCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAUCC	15608
2270	AGGGGUGU U CACCUCAG	301	CUGAGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCCCU	15609
2271	GGGGUGUU C ACCUCAGU	302	ACUGAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCCC	15610
2276	GUUCACCU C AGUUGGGA	303	UCCCAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGAAC	15611
2280	ACCUCAGU U GGAAGGCC	304	GCCUCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAGGU	15612
2292	AAGGCGUU C CAUACAGU	305	ACUUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCUU	15613
2296	CUGUCCAU C AAGUUGUC	306	GAACACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGACAG	15614
2303	UCAAGUGU U CGGAGGAG	307	CUCCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUUGA	15615
2304	CAAGUGUU C GGAGGAGC	308	GCUCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACUUG	15616
2315	AGGAGCAU U CCGCUCAC	309	GUGAGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUCCU	15617
2316	GGAGCAUU C CGUCACU	310	AGUGAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGUCC	15618
2321	AUUCGCGU C ACUGUUCG	311	CGAACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGAU	15619

Table III

2327	CUCACUGU U CGGAGGCA	312	UGCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGAG	15620
2328	UCACUGUU C GGAGGCAU	313	AUGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA AACAGUGA	15621
2339	AGGCAUGU C CUGGAUAA	314	UUAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCU	15622
2346	UCCUGGAU A ACGCAAGG	315	CCUUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGGA	15623
2357	GCAAGGAU U GCUGGGGG	316	CCCCCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUUGC	15624
2368	UGGGGGCU C UCCUGUUG	317	CAACAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCCA	15625
2370	GGGGGCUU C CUGUUGUG	318	CACAACAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCC	15626
2375	UCUCCUGU U GUGGAUGG	319	CCAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAGA	15627
2388	AUGGGCAU C AAUGCUCG	320	CGAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAU	15628
2395	UCAAGUCU C GUGAUAGG	321	CCUAUAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUGA	15629
2401	CUCGUGAU A GGUCCAUA	322	UAUUGACC CUGAUGAG	GCCGUUAGGC	CGAA AAGACGAG	15630
2405	UGAUAGGU C CAUAGCUC	323	GAGCUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUCA	15631
2409	AGGUCCAU A GCUCUCAC	324	GUGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCU	15632
2413	CCAUAGCU C UCACGUUU	325	AAACGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUAUGG	15633
2415	AUAGCUCU C ACGUUUCU	326	AGAAACGU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUAU	15634
2420	UCUCACGU U UCUCGCAG	327	CUGCGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAGA	15635
2421	CUCACGUU U CUCGCAGU	328	ACUGCGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGUGAG	15636
2422	UCACGUUU C UCGCAGUU	329	AACUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUGA	15637
2424	ACGUUUCU C GCAGUUGG	330	CCAACUGC CUGAUGAG	GCCGUUAGGC	CGAA AGAAACGU	15638
2430	CUCGCAGU U GGAGGAGU	331	ACUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCGAG	15639
2439	GGAGGAGU U CUGCUCUU	332	AAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCUCC	15640
2440	GAGGAGUU C UGCUCUUC	333	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AATUCCUC	15641
2445	GUUCUGCU C UUCUCUCU	334	GAGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAC	15642
2447	UCUGCUCU U CCUCUCCG	335	CGGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGA	15643
2448	CUGCUCUU C CUCUCCGU	336	ACGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAG	15644
2451	CUCUCCU C UCCGUGAA	337	UUCACGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAG	15645
2453	CUUCCUCU C CGUGAACG	338	CGUUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAAG	15646
2487	UGUGCCAU A GACAUCAG	339	CUGAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCACA	15647
2493	AUAGACAU C AGCCGGCA	340	UGCCGGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUAU	15648
2528	UGGAGUGU U CAUACACA	341	UGUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	15649
2529	GGAGUGUU C AUACACAA	342	UUGUGUAU CUGAUGAG	GCCGUUAGGC	CGAA AACACUCC	15650
2532	GUGUUCAU A CACAAUGA	343	UCAUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAACAC	15651
2551	UGGAGGCU U GGAUGGAC	344	GUCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCCA	15652
2564	GGACCGGU A CAAGUAUU	345	AAUACUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUCC	15653
2570	GUACAAGU A UUAUCCUG	346	CAGGGGUA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUAC	15654
2572	ACAAGUAU U ACCUGAA	347	UUCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AUACTUGU	15655
2573	CAAGUAUU A CCCUGAAA	348	UUUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUACUUG	15656
2595	CAAGGCCU A GCCAAGAU	349	AUCUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUG	15657
2604	GCCAAGAU C AUUCAGAA	350	UUCUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGC	15658
2607	AAGAUCAU U CAGAAAGC	351	GCUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCUU	15659
2608	AGAUCAUU C AGAAAGCU	352	AGCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUAUUCU	15660
2617	AGAAAGCU C AUAAGGAA	353	UUCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUCU	15661
2620	AAGCUCAU A AGGAAGGA	354	UCCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCUU	15662
2638	UGUGCGGU C UACGAUCA	355	UGAUCGUA CUGAUGAG	GCCGUUAGGC	CGAA ACCGCACA	15663
2640	UGCGGUCU A CGAUCAGU	356	ACUGAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGACCGCA	15664
2645	UCUACGAU C AGUUUCCA	357	UGGAAACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGUAGA	15665
2649	CGAUCAGU U UCCAGACU	358	AGUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUCG	15666
2650	GAUCAGUU U CCAGACUG	359	CAGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AACUGAUC	15667
2651	AUCAGUUU C CAGACUGG	360	CCAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAACUGAU	15668
2665	UGGAGCAU C AAAUGUGG	361	CCACAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCCA	15669
2701	UGAACACU C UUUUGAAG	362	CUUCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUCA	15670
2703	AACACUCU U UUGAAGGA	363	UCCUUCAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGUU	15671
2704	ACACUCUU U UGAAGGAG	364	UCUUCUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGU	15672
2705	CACUCUUU U GAAGGAGA	365	UCUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUG	15673
2727	GUGGACCU U AGUGUCGU	366	ACGACACU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCAC	15674
2728	UGGACCUU A GUGUCGUG	367	CACGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCCA	15675
2733	CUUAGUGU C GUGGUUGA	368	UCAACCAC CUGAUGAG	GCCGUUAGGC	CGAA ACACUAAG	15676
2739	GUCGUGGU U GAGAAACA	369	UGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCACGAC	15677
2759	GGGAAUGU A CAAGUCAG	370	CUGACUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCUCC	15678
2765	GUACAAGU C AGCACCUA	371	UAGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUAC	15679
2773	CAGCACCU A AACGCCUC	372	GAGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUG	15680
2781	AAACGCCU C ACCGCCAC	373	GUGGCGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUUU	15681
2801	GGAAAAU U GGAAAUUG	374	CAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCC	15682

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2808	UUGGAAAU U GGCUGGAA	375	UUCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAA	15683
2833	GAAAGAGU A UUUUAUUU	376	AAAUAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	15684
2835	AAGAGUAU U UUAUUUGC	377	GCAAAUAA CUGAUGAG	GCCGUUAGGC	CGAA AUACUCUU	15685
2836	AGAGUAUU U UAUUUGCA	378	UGCAAAUA CUGAUGAG	GCCGUUAGGC	CGAA AAUACUCU	15686
2837	GAGUAUUU U AUUUGCAC	379	GUGCAAAU CUGAUGAG	GCCGUUAGGC	CGAA AAAUACUC	15687
2838	AGUAUUUU A UUUGCACC	380	GGUGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAAUACU	15688
2840	UAUUUUAU U UGCACCAG	381	CUGGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUAAAAUA	15689
2841	AUUUUUAU U GCACCAGA	382	UCUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAUAAAAU	15690
2853	CCAGAACU C GCCAACAA	383	UUGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUGG	15691
2867	CAACACCU U UGUGGUUG	384	CAACACCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUG	15692
2868	AACACCUU U GUGGUUGA	385	UCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUU	15693
2874	UUUGUGGU U GAUGGUCC	386	GGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACCACAAA	15694
2881	UUGAUGGU C CGGAGACC	387	GGUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	15695
2899	AGGAUUGU C CGACUCAG	388	CUGAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCU	15696
2905	GUCCGACU C AGAAUCGC	389	GCGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGGAC	15697
2911	CUCAGAAU C GCGCUUGG	390	CCAAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGAG	15698
2917	AUCGCGCU U GGAUAGC	391	GCUAUUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAU	15699
2923	CUUGGAAU A GCUUAGAA	392	UUCUAAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAG	15700
2927	GAAUAGCU U AGAAGUGG	393	CCACUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCUAUUC	15701
2928	AAUAGCUU A GAAGUGGA	394	UCCACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUAUU	15702
2941	UGGAGGAU U UUGGAUUU	395	AAAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCA	15703
2942	GGAGGAUU U UGGAUUUG	396	CAAAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUCC	15704
2943	GAGGAUUU U GGAUUUGG	397	CCAAAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUC	15705
2948	UUUUGGAU U UGGUCUCA	398	UGAGACCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	15706
2949	UUUGGAUU U GGUCUCAC	399	UGAGACC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAA	15707
2953	GAUUUGGU C UCACCAGC	400	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAAAU	15708
2955	UUUGGUCU C ACCAGCAC	401	GUGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGACCAAA	15709
2965	CCAGCACU C GGAUGUUC	402	GAACAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUGG	15710
2972	UCGGAUGU U CCUGAAGG	403	CCUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCGA	15711
2973	CGGAUGUU C CUGAAGGU	404	ACCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCG	15712
2982	CUGAAGGU C AGAGAGAG	405	CUCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCAG	15713
3011	AUGUGACU C GAAGAUCA	406	UGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCACAU	15714
3018	UCGAAGAU C AUUGGAAC	407	GUUCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGCA	15715
3021	AAGAUCAU U GGAACGGC	408	GCCGUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUUU	15716
3033	ACGGCUGU C AAGAACAA	409	UUGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGU	15717
3044	GAACAACU U GGCGAUCC	410	GGAUCGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUUC	15718
3051	UUGGCCAU C CACAGUGA	411	UCACUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCAA	15719
3065	UGACCUGU C CUAUUGGA	412	UCCAAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGUCA	15720
3068	CCUGUCCU A UUGGAUUG	413	CAAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAGG	15721
3070	UGUCCUAU U GGAUUGAA	414	UUCAAUCC CUGAUGAG	GCCGUUAGGC	CGAA AUAGGACA	15722
3075	UAUUGGAU U GAAAGCAG	415	CUGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAAUA	15723
3087	AGCAGGCU C AAUGAUAC	416	GUAUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGCU	15724
3094	UCAUGAU A CGUGGAAG	417	CUUCCACG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUGA	15725
3105	UGGAAGCU U GAAAGGGC	418	GCCCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCCA	15726
3117	AGGGCAGU U CUGGGUGA	419	UCACCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCCU	15727
3118	GGGCAGUU C UGGGUGAA	420	UUCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCC	15728
3129	GGUGAAGU C AAUUAUUG	421	CAUGAUUU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACC	15729
3134	AGUCAAAU C AUGUACGU	422	ACGUACAU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGACU	15730
3139	AAUCAUGU A CGUGGCCU	423	AGGCCACG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUU	15731
3157	AGACGCAU A CCUGUGGG	424	CCACAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCGUCU	15732
3161	GCAUACCU U GUGGGGCG	425	CGCCCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUAGC	15733
3177	GUGGAAU C CUUGAGAG	426	CUCUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAUC	15734
3180	GGAUCCU U GAGAGUGA	427	UCACUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUCU	15735
3191	GAGUGACU U GAUAAUAC	428	GUAUUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCACUC	15736
3195	GACUUGAU A AUACCAGU	429	ACUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGUC	15737
3198	UUGAUAAU A CCAGUCAC	430	GUGACUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAUCAA	15738
3204	AUACCAGU C ACACUGGC	431	GCCAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUUU	15739
3229	GAAGCAAU C ACAUUCGG	432	CCGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUUC	15740
3235	AUCACAAU C GGAGACCU	433	AGGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGAU	15741
3248	ACCUGGGU A CAAGACAC	434	GUGUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGGU	15742
3288	GGCCGGGU A GAGAUGA	435	UCAAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCGGCC	15743
3294	GUAGAGAU U GACUUCGA	436	UCGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCUAC	15744
3299	GAUUGACU U CGAUUACU	437	AGUAUUCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUC	15745

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3300	AUUGACUU C GAUUAUCG	438	CAGUAAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAAU	15746
3304	ACUUCGAU U ACUGCCCA	439	UGGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCGAAGU	15747
3305	CUUCGAUU A CUGCCCAG	440	CUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGAAG	15748
3319	CAGGAACU A CGGUCACC	441	GGUGACCG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUG	15749
3324	ACUACGGU C ACCCUGAG	442	CUCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAGU	15750
3364	CUGCCACU C GCACCACC	443	GGUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCAG	15751
3389	CGGAAAGU U GAUAACAG	444	CUGUUAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUG	15752
3393	AAGUUGAU A ACAGAUUG	445	CAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCACU	15753
3400	UAAACAGU U GGUGCUGC	446	GCAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUUA	15754
3422	CUGCACC U ACCACCAC	447	GUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCAG	15755
3423	UGCACCUU A CCACCACU	448	AGUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCA	15756
3437	ACUGCGCU A CCAAACUG	449	CAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAGU	15757
3457	GCGGCGU U GGUUAGGU	450	ACCAUACC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGC	15758
3461	CUGUUGGU A UGGUAGGU	451	CCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAACAG	15759
3466	GGUAGGU A UGGAGAU	452	GAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUACC	15760
3474	AUGGAGAU C AGACCACA	453	UGUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCA	15761
3504	AAGACCCU C GUGCAGUC	454	GACUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCU	15762
3512	CGUGCAGU C ACAAGUGA	455	UCACUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCACG	15763
3526	UGAAUGCU U AUAUUGCU	456	AGCAUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUA	15764
3527	GAAUGCUU A UAAUGCUG	457	CAGCAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUC	15765
3529	AUGCUUAU A AUGCUGAU	458	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUAAGCAU	15766
3538	AUGCUGAU A UGAUUGAC	459	GUCAUAU CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	15767
3543	GAUAUGAU U GACCCUUU	460	AAAGGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUAUC	15768
3550	UUGACCCU U UUCAGUUG	461	CAACUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCA	15769
3551	UGACCCUU U UCAGUUGG	462	CCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUCA	15770
3552	GACCCUUU U CAGUUGGG	463	CCCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGUC	15771
3553	ACCCUUUU C AGUUGGGC	464	GCCCAACU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGGU	15772
3557	UUUUCAGU U GGGCCUUC	465	GAAGGCCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAAA	15773
3564	UUGGGCCU U CUGGUCGU	466	ACGACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCCCAA	15774
3565	UGGGCCUU C UGGUCGUG	467	CACGACCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCCA	15775
3570	CUUCUGGU C GUGUUCUU	468	AAGAACAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAG	15776
3575	GGUCGUGU U CUUGGCCA	469	UGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACACGACC	15777
3576	GUCGUGUU C UUGGCCAC	470	GUGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACACGAC	15778
3578	CGUGUUCU U GGCCACCC	471	GGGUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAACACG	15779
3594	CAGGAGGU C CUUCGCAA	472	UUGCGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCUG	15780
3597	GAGGUCCU U CGCAAGAG	473	CUCUUGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUCC	15781
3598	AGGUCCUU C GCAAGAGG	474	CCUCUUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGACU	15782
3621	GCCAAGAU C AGCAUGCC	475	GCAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGC	15783
3634	UGCCAGCU A UACUGAUU	476	AAUCAGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCA	15784
3636	CCAGCUAU A CUGAUUGC	477	GCAAUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUAGCUGG	15785
3642	AUACUGAU U GCUCUGCU	478	AGCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUAU	15786
3646	UGAUUGCU C UGCUAGUC	479	GACUAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUA	15787
3651	GCUCUGCU A GUCCUGGU	480	ACCAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAGC	15788
3654	CUGCUAGU C CUGGUGUU	481	AACACCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUAGCAG	15789
3662	CCUGGUGU U UGGGGGCA	482	UGCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAGG	15790
3663	CUGGUGUU U GGGGGCAU	483	AUGCCCCC CUGAUGAG	GCCGUUAGGC	CGAA AACACCAG	15791
3672	GGGGGCAU U ACUACAC	484	GUGUAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCC	15792
3673	GGGGCAUU A CUUACACU	485	AGUGUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCC	15793
3676	GCAUUAU C UACACUGAU	486	AUCAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUAAUGC	15794
3677	CAUUAU C CACUGAUG	487	CAUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUAAUG	15795
3689	UGAUGUGU U ACGCUAUG	488	CAUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCA	15796
3690	GAUGUGUU A CGCUAUGU	489	ACAUAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACACAUC	15797
3695	GUUACGU A UGUCAUCU	490	AGAAGACA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUAAC	15798
3699	CGCUAUGU C AUCUUGGU	491	ACCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUAGCG	15799
3702	UAUGUCAU C UUGGUGGG	492	CCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGACAUA	15800
3704	UGUCAUCU U GGUGGGGG	493	CCCCCACC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGACA	15801
3718	GGGCGACU U UCGCAGAA	494	UUCUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCCC	15802
3719	GGCAGCUU U CGCAGAAU	495	AUUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCC	15803
3720	GCAGCUUU C GCAGAAUC	496	GAUUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUGC	15804
3728	CGCAGAAU C UAAUUCGG	497	CCGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCG	15805
3730	CAGAAUCU A AUUCGGGA	498	UCCCGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCUG	15806
3733	AAUCUAAU U CGGGAGGA	499	UCCUCCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGAUU	15807
3734	AUCUAAAU C GGGAGGAG	500	CUCCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAUUAAGU	15808

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3750	GACGUGGU A CACUUGGC	501	GCCAAAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUC	15809
3755	GGUACACU U GGCUCUCA	502	UGAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUACC	15810
3762	UUGGCGCU C AUGGCGAC	503	GUCGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCCAA	15811
3773	GGCGACCU U CAAGAUAC	504	GUUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCGCC	15812
3774	GCGACCUU C AAGAUACA	505	UGUAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCGC	15813
3780	UUCAAGAU A CAACCAGU	506	ACUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGAA	15814
3791	ACCAGUGU U UAUGGUGG	507	CCACCAUA CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGU	15815
3792	CCAGUGUU U AUGGUGGC	508	GCCACCAU CUGAUGAG	GCCGUUAGGC	CGAA AACACUGG	15816
3793	CAGUGUUU A UGGUGGCA	509	UGCCACCA CUGAUGAG	GCCGUUAGGC	CGAA AAACACUG	15817
3803	GGUGGCAU C GUUCUCA	510	UGAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCACC	15818
3806	GGCAUCGU U UCUCAAAG	511	CUUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUGCC	15819
3807	GCAUCGUU U CUCAAAGC	512	GCUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGC	15820
3808	CAUCGUUU C UCAAAGCG	513	CGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAACGAUG	15821
3810	UCGUUUCU C AAAGCGAG	514	CUCGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACGA	15822
3840	GAGAACAU U UUGUUGAU	515	AUCAACAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUUCUC	15823
3841	AGAACAUU U UGUUGAUG	516	CAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUCU	15824
3842	GAACAUUU U GUUGAUGU	517	ACAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUUC	15825
3845	CAUUUGU U GAUGUUGG	518	CCAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAUG	15826
3851	GUUGAUGU U GGCUGCUG	519	CAGCCGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAC	15827
3861	GCGGCUGU U UUCUUUCA	520	UGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGC	15828
3862	CGGCGUUG U UCUCUCAA	521	UUGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AACAGCCG	15829
3863	GGCUGUUU U CUUUCAAA	522	UUUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAACAGCC	15830
3864	GCUGUUUU C UUUCAAU	523	AUUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGC	15831
3866	UGUUUUCU U UCAAUUGG	524	CCAUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAACA	15832
3867	GUUUUCUU U CAAUUGGC	525	GCCAUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAC	15833
3868	UUUUCUUU C AAUUGGCU	526	AGCCAUUU CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAA	15834
3877	AAUUGGCU U AUCACGAU	527	AUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUUU	15835
3878	AAUGGCUU A UCACGAUG	528	CAUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAUU	15836
3880	UGGCUUUA C ACGAUGCC	529	GGCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUAAGCCA	15837
3897	CGCCAAAU U CUGCUCUG	530	CAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCG	15838
3898	GCCAAAUU C UGCUCUGG	531	CCAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGCG	15839
3903	AUUCUGCU C UGGGAGAU	532	AUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAU	15840
3912	UGGGAGAU C CCUGAUGU	533	ACAUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCCA	15841
3923	UGAUGUGU U GAAUUCAC	534	GUGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCA	15842
3928	UGUUGAAU U CACUGGCG	535	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCAACA	15843
3929	GUUGAAUU C ACUGGCGG	536	CCGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAAC	15844
3939	CUGGCGGU A GCUGGAU	537	AUCCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCAG	15845
3943	CGGUAGCU U GGAUGAUA	538	UAUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUACCG	15846
3951	UGGAUGAU A CUGAGAGC	539	GCUCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCCA	15847
3963	AGAGCCAU A ACAUUCAC	540	UGGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCU	15848
3968	CAUAACAU U CACAACGA	541	UCGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUAUG	15849
3969	AUAACAUU C ACAACGAC	542	GUCGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUAU	15850
3980	AACGACAU C AAACGUGG	543	CCACGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCGUT	15851
3990	AACGUGGU U GUUCCGCU	544	AGCGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUU	15852
3993	GUGGUUGU U CCGCUGCU	545	AGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAC	15853
3994	UGGUUGUU C CGCUGCUA	546	UAGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACAACCA	15854
4002	CCGUGCU A GCCCUGCU	547	AGCAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCGG	15855
4011	GCCCUGCU A ACACCCGG	548	CCGGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGGC	15856
4031	GAGAUGCU U GAAUCUGG	549	CCAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUCU	15857
4036	GCUUGAAU C UGGAUGUG	550	CACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAAGC	15858
4046	GGAUGUGU A CAGGAUAC	551	GUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCC	15859
4053	UACAGGAU A CUGCUGUU	552	AACAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGUA	15860
4061	ACUGCUGU U GAUGGUCG	553	CGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCAGU	15861
4068	UUGAUGGU C GGAUAGG	554	CCUAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	15862
4074	GUCGGAAU A GGCAGCUU	555	AAGCUGCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGCAC	15863
4082	AGGCAGCU U GAUCAGGG	556	CCUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCCU	15864
4086	AGCUUGAU C AGGGAGAA	557	UUCUCCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGCU	15865
4129	GAGCAGU C UGCUAUGC	558	GCAUAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACTUUGCUC	15866
4134	AGUCUGCU A UGCUUGGC	559	GCCAAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGACU	15867
4139	GCUAUGCU U GGCUCUAG	560	CUAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUAGC	15868
4144	GCUUGGCU C UAGCCUCA	561	UGAGGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAGC	15869
4146	UUGGCUCU A GCCUCAAC	562	GUUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCAA	15870
4151	UCUAGCCU C AACAGGAC	563	GUCCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCUAGA	15871

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4161	ACAGGACU U UUCAACCC	564	GGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGU	15872
4162	CAGGACUU U UCAACCCC	565	GGGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCUG	15873
4163	AGGACUUU U CAACCCCA	566	UGGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCCU	15874
4164	GGACUUUU C AACCCCAU	567	AUGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUCC	15875
4176	CCCAUGAU C CUUGCUGC	568	GCAGCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGGG	15876
4179	AUGAUCCU U GCUGCUGG	569	CCAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUCAU	15877
4194	GGACUGAU U GCAUGUGA	570	UCACAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUCC	15878
4204	CAUGUGAU C CCAACCGU	571	ACGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUCACAUG	15879
4213	CCAACCGU A AACGCGGA	572	UCCGCGUU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUGG	15880
4251	ACAGCUGU C GGCCUAAU	573	AUUAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGU	15881
4257	GUCGGCCU A AUGUUUGC	574	GCAAAAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCGGAC	15882
4262	CCUAAUGU U UGCCAUCG	575	CGAUGGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUUAGG	15883
4263	CUAAUGUU U GCCAUCGU	576	ACGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA AACAUUAG	15884
4269	UUUGCCAU C GUCGGAGG	577	CCUCCGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAA	15885
4272	GCCAUCGU C GGAGGGCU	578	AGCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGC	15886
4290	GCAGAGCU U GACAUUGA	579	UCAAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	15887
4296	CUUGACAU U GACUCCAU	580	AUGGAGCC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAAG	15888
4301	CAUUGACU C CAUGGCCA	581	UGGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUG	15889
4311	AUGGCCAU U CCAUGAC	582	GUCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCAU	15890
4312	UGGCCAUU C CAUGACU	583	AGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCCA	15891
4321	CAUUGACU A UCGCGGGG	584	CCCCGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUG	15892
4323	AUGACUAA C GCGGGGCU	585	AGCCCCGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUCAU	15893
4332	GCGGGGCU C AUGUUUGC	586	GCAAACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCGC	15894
4337	GCUAUGU U UGCUGCUU	587	AAGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAGC	15895
4338	CUCAUGUU U GCUGCUUU	588	AAAGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AACAUAGG	15896
4345	UUGCUGCU U UCGUGAUU	589	AAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAA	15897
4346	UGCUGCUU U CGUGAUUU	590	AAAUACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCA	15898
4347	GCUGCUUU C GUGAUUUC	591	GAAAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAGC	15899
4353	UUCGUGAU U UCUGGGAA	592	UUCCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAA	15900
4354	UCGUGAUU U CUGGGAAA	593	UUUCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCACGA	15901
4355	CGUGAUUU C UGGGAAAU	594	AUUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAUCACG	15902
4364	UGGGAAAU C AACAGAU	595	UAUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCCCA	15903
4372	CAACAGAU A UGUGGAUU	596	AAUCCACA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUUG	15904
4380	AUGUGGAU U GAGAGAAC	597	GUUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUU	15905
4398	GCGGACAU U UCCUGGGA	598	UCCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCGC	15906
4399	CGGACAUU U CCUGGGAA	599	UUCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUCCG	15907
4400	GGACAUUU C CUGGGAAA	600	UUUCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUCC	15908
4422	GCAGAAAU U ACAGGCUC	601	GAGCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUGC	15909
4423	CAGAAAUU A CAGGCUCG	602	CGAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUG	15910
4430	UACAGGCU C GAGCGAAA	603	UUUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGUA	15911
4443	GAAAGAGU U GAUGUGCG	604	CGCACAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	15912
4455	GUGCGGCU U GAUGAUGA	605	UCAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCAC	15913
4472	UGGAAACU U CCAGTCA	606	UGAGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUUUCCA	15914
4473	GGAAACUU C CAGCUCAU	607	AUGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUUCC	15915
4479	UUCCAGCU C AUGAAUGA	608	UCAUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGAA	15916
4489	UGAAUGAU C CAGGAGCA	609	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUCA	15917
4501	GAGCACCU U GGAAGAU	610	UAUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUC	15918
4509	UGGAAGAU A UGGAUGCU	611	AGCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCA	15919
4518	UGGAUGCU C AGAAUGGU	612	ACCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCCA	15920
4527	AGAAUGGU C UGUUCGCG	613	GCGAGACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUCU	15921
4531	UGGUCUGU C UCGCGAUU	614	AAUCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ACAGACCA	15922
4533	GUCUGUCU C GCGAUUAG	615	CUAAUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGACAGAC	15923
4539	CUCGCGAU U AGUGCGUA	616	UACGCACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCGAG	15924
4540	UCGCGAUU A GUGCGUAC	617	GUACGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUCGCGA	15925
4547	UAGUGCGU A CACCCCCU	618	AGGGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCAUA	15926
4563	UGGGCAAU C UUGCCCUU	619	GAGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCCA	15927
4565	GGCAAUUCU U GCCCUCAG	620	CUGAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGCC	15928
4571	CUUGCCCU C AGUAGUUG	621	CAACUACU CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAAG	15929
4575	CCUCACAU A GUUGGAUU	622	AAUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGGG	15930
4578	UCAGUAGU U GGAUUUUG	623	CAAAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGA	15931
4583	AGUUGGAU U UUGGAUAA	624	UUAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAACU	15932
4584	GUUGGAUU U UGGAUAAC	625	GUUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAC	15933
4585	UUGGAUUU U GGAUAACU	626	AGUUAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUCCAA	15934

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4590	UUUUGGAU A ACUCUCCA	627	UGGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	15935
4594	GGAUAAU C UCCAAUAC	628	GUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUCC	15936
4596	AUAACUCU C CAUACAC	629	GUGUAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUAU	15937
4601	UCUCCAUA A CACAAAGA	630	UCUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGAGA	15938
4622	AGGCGUGU U GUGGGACA	631	UGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCU	15939
4633	GGGACACU C CCUACCA	632	UGGUGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCCC	15940
4637	CACUCCU C ACCAAAGG	633	CCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGUG	15941
4649	AAAGGAGU A CAAAAAGG	634	CCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUU	15942
4677	ACCGGCGU C UACAGGAU	635	AUCCUGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCGU	15943
4679	CGGCGUCU A CAGGAUCA	636	UGAUCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCG	15944
4686	UACAGGAU C AUGACUCG	637	CGAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGUA	15945
4693	UCAUGACU C GUGGGCUG	638	CAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUGA	15946
4704	GGGUGUCU C GGCAGUUA	639	UACUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCC	15947
4711	UCGGCAGU U AUCAAGCA	640	UGCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCGA	15948
4712	CGGCGUU A UCAAGCAG	641	CUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCG	15949
4714	GCAGUUUA C AAGCAGGA	642	UCCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUAACUG	15950
4737	GUGAUGGU U GAAGGUGU	643	ACACCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAC	15951
4746	GAAGGUGU U UCCACAC	644	GUGUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACACCUUC	15952
4747	AAGGUGUU U UCCACACC	645	GGUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AACACCUU	15953
4748	AGGUGUUU U CCACACCC	646	GGGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	15954
4749	GGUGUUUU C CACACCCU	647	AGGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAAACACC	15955
4758	CACACCUU U UGGCAUAC	648	GUUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGUG	15956
4759	ACACCCUU U GGCAUACA	649	UGUUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUGU	15957
4765	UUUGGCAU A CAACAAAA	650	UUUUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAAA	15958
4783	GAGCCGCU U UGAUGAGC	651	GCUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGGUC	15959
4784	AGCCGCUU U GAUGAGCG	652	CGCUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AACCGGCU	15960
4814	GGACCAU A CUGGGGCA	653	UGCCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUCC	15961
4827	GGCAGUGU C AAGGAGGA	654	UCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA ACACUGCC	15962
4837	AGGAGGAU C GACUUUGU	655	ACAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCU	15963
4842	GAUCGACU U UGUACGG	656	CCGUUAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAUC	15964
4843	AUCGACUU U GUUACGGA	657	UCCGUUAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGAU	15965
4846	GACUUUGU U ACGGAGGA	658	UCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGUC	15966
4847	ACUUUGUU A CGGAGGAC	659	GUCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGU	15967
4865	CUGGAAU U GCAGACA	660	UGUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAG	15968
4905	CAGAUGAU U GUGGUGGA	661	UCCACCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCUG	15969
4929	AAGAACGU U AAGAACGU	662	ACGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCU	15970
4930	AGAACGUU A AGAACGUC	663	GACGUUC CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCU	15971
4938	AAGAACGU C CAGACGAA	664	UUCGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCU	15972
4958	AGGGGUGU U CAAACAC	665	GUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCU	15973
4959	GGGGUGUU C AAAACACC	666	GGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AACACCCC	15974
4980	GGAGAAU C GGGCCCGU	667	ACGGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUCC	15975
4993	CCGUGACU U UGGACUUC	668	GAAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCACGG	15976
4994	CGUGACUU U GGACUUC	669	GGAAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCACG	15977
5000	UUUGGACU U CCCACUG	670	CAGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAA	15978
5001	UUGGACUU C CCCACUG	671	CCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCAA	15979
5015	UGGAACAU C AGGCTCAC	672	GUGAGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCAU	15980
5021	AUCAGGCU C ACCAAUAG	673	CUAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGAU	15981
5028	UCACCAU A GUGGACAA	674	UUGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUGA	15982
5052	GAUGUGAU U GGGCUUUA	675	UAAAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCACAUC	15983
5058	AUUGGGCU U UAUGGCAA	676	UUGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAAU	15984
5059	UUGGGCUU U AUGGCAU	677	AUUGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCAA	15985
5060	UGGGCUU A UGGCAUUG	678	CAUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCCCA	15986
5073	AAUGGAGU C AUAAUGCC	679	GGCAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAUU	15987
5076	GGAGUCAU A AUGCCCAA	680	UUGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGACUCC	15988
5090	CAACGGCU C AUACAUA	681	UUAUGUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCGUUG	15989
5093	CGGCUCAU A CAUAAGCG	682	CGCUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCG	15990
5097	UCAUACAU A AGCGCGAU	683	AUCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUGA	15991
5106	AGCGCGAU A GUGCAGG	684	CCCUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCGCGU	15992
5136	GAGCCAAU C CCAGCCGG	685	CCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCUC	15993
5147	AGCCGGAU U CGAACCG	686	CAGGUUCG CUGAUGAG	GCCGUUAGGC	CGAA AUCCGGCU	15994
5148	GCCGGAUU C GAACCUGA	687	UCAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGCG	15995
5178	AAACAGAU C ACUGUACU	688	AGUACAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGUUU	15996
5184	AUCACUGU A CUGGAUCU	689	AGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGAU	15997

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5191	UACUGGAU C UCCAUCCC	690	GGGAUGGA CUGAUGAG GCCGUUAGGC	CGAA AUCCAGUA	15998
5193	CUGGAUCU C CAUCCCGG	691	CCGGGAUG CUGAUGAG GCCGUUAGGC	CGAA AGAUCCAG	15999
5197	AUCUCCAU C CCGGCCGC	692	GGCGCCGG CUGAUGAG GCCGUUAGGC	CGAA AUGGAGAU	16000
5209	GCGCCGGU A AAACAAGG	693	CCUUGUUU CUGAUGAG GCCGUUAGGC	CGAA ACCGGCGC	16001
5223	AGGAGGAU U CUGCCACA	694	UGUGGCAG CUGAUGAG GCCGUUAGGC	CGAA AUCCUCU	16002
5224	GGAGGAU C UGCCACAG	695	CUGUGGCA CUGAUGAG GCCGUUAGGC	CGAA AAUCCUCC	16003
5235	CCACAGAU C AUCAAAGA	696	UCUUUGAU CUGAUGAG GCCGUUAGGC	CGAA AUCUGUGG	16004
5238	CAGAUCAU C AAAGAGGC	697	GCCUCUUU CUGAUGAG GCCGUUAGGC	CGAA AUGAUCUG	16005
5250	GAGGCCAU A AACAGAAG	698	CUUCUGUU CUGAUGAG GCCGUUAGGC	CGAA AUGGCCUC	16006
5277	GCCGUGCU A GCACCAAC	699	GUUGGUGC CUGAUGAG GCCGUUAGGC	CGAA AGCACGGC	16007
5292	ACCAGGGU U GUGGCGUC	700	GCAGCCAC CUGAUGAG GCCGUUAGGC	CGAA ACCCUGGU	16008
5334	CUGCCCAU C CGGUACCA	701	UGGUACCG CUGAUGAG GCCGUUAGGC	CGAA AUGGCAG	16009
5339	CAUCCGGU A CCAGACAU	702	AUGUCUGG CUGAUGAG GCCGUUAGGC	CGAA ACCGGAUG	16010
5348	CCAGACAU C CGCAGUGC	703	GCACUGCG CUGAUGAG GCCGUUAGGC	CGAA AUGUCUGG	16011
5368	GAGAACAU A AUGGAAAU	704	AUUUCCAU CUGAUGAG GCCGUUAGGC	CGAA AUGUUCUC	16012
5382	AAUGAGAU U GUUGAUGU	705	ACAUAAC CUGAUGAG GCCGUUAGGC	CGAA AUCUCAU	16013
5385	GAGAUGU U GAUGUCAU	706	AUGACAUC CUGAUGAG GCCGUUAGGC	CGAA ACAAUUC	16014
5391	GUUGAUGU C AUGUGUCA	707	UGACACAU CUGAUGAG GCCGUUAGGC	CGAA ACAUCAAC	16015
5398	UCAUGUGU C AUGCUACC	708	GGUAGCAU CUGAUGAG GCCGUUAGGC	CGAA ACACAUGA	16016
5404	GUC AUGCU A CCCUCACC	709	GGUGAGGG CUGAUGAG GCCGUUAGGC	CGAA AGCAUGAC	16017
5409	GUACCCU C ACCCACAG	710	CUGUGGGU CUGAUGAG GCCGUUAGGC	CGAA AGGGUAGC	16018
5426	GUUGAUGU C UCCUCACA	711	UGUGAGGA CUGAUGAG GCCGUUAGGC	CGAA ACAUCAGC	16019
5428	UAUGUCU C CUCACAGG	712	CCUGUGAG CUGAUGAG GCCGUUAGGC	CGAA AGACAUCA	16020
5431	UGUCUCCU C ACAGGGUG	713	CACCCUGU CUGAUGAG GCCGUUAGGC	CGAA AGGAGACA	16021
5447	GCCGAACU A CAACCUGU	714	ACAGGUUG CUGAUGAG GCCGUUAGGC	CGAA AGUUCGGC	16022
5456	CAACCUGU U CGUGAUGG	715	CCAUCACG CUGAUGAG GCCGUUAGGC	CGAA ACAGGUUG	16023
5457	AACCUGUU C GUGAUGGA	716	UCCAUCAC CUGAUGAG GCCGUUAGGC	CGAA AACAGGUU	16024
5473	AUGAGGCU C AUUUCACC	717	GGUGAAAU CUGAUGAG GCCGUUAGGC	CGAA AGCCUCAU	16025
5476	AGGCUCAU U UCACCGAC	718	GUCCGUGA CUGAUGAG GCCGUUAGGC	CGAA AUGAGCCU	16026
5477	GGCUCAU U CACCGACC	719	GGUCGGUG CUGAUGAG GCCGUUAGGC	CGAA AAUGAGCC	16027
5478	GUCAUUU C ACCGACC	720	GGGUCGGU CUGAUGAG GCCGUUAGGC	CGAA AAUAGAGC	16028
5491	ACCCAGCU A GCAUUGCA	721	UGCAAUG CUGAUGAG GCCGUUAGGC	CGAA AGCUGGGU	16029
5496	GUAGCAU U GCAGCAAG	722	CUUGCUGC CUGAUGAG GCCGUUAGGC	CGAA AUGCUAGC	16030
5509	CAAGAGGU U ACAUUUCC	723	GGAAAUUG CUGAUGAG GCCGUUAGGC	CGAA ACCUCUUG	16031
5510	AAGAGGUU A CAUUUCCA	724	UGGAAAUUG CUGAUGAG GCCGUUAGGC	CGAA AACCUCUU	16032
5514	GGUUAU C UCCACAAA	725	UUUGUGGA CUGAUGAG GCCGUUAGGC	CGAA AUGUAACC	16033
5515	GUUAU C UCCACAAA	726	CUUUGUGG CUGAUGAG GCCGUUAGGC	CGAA AAUGUAAC	16034
5516	UUUAU C CACAAAGG	727	CCUUGUG CUGAUGAG GCCGUUAGGC	CGAA AAAUGUAA	16035
5526	ACAAAGGU C GAGCUAGG	728	CCUAGCUC CUGAUGAG GCCGUUAGGC	CGAA ACCUUGU	16036
5532	GUCGAGCU A GGGGAGGC	729	GCCUCCCC CUGAUGAG GCCGUUAGGC	CGAA AGCUCGAC	16037
5550	GCGGCAU A UUAUGAC	730	GUCAUGAA CUGAUGAG GCCGUUAGGC	CGAA AUUGCCGC	16038
5552	GGCAUUAU U CAUGACAG	731	CUGUCAUG CUGAUGAG GCCGUUAGGC	CGAA AUAUUGCC	16039
5553	GCAUAU C AUGACAGC	732	GCUGUCAU CUGAUGAG GCCGUUAGGC	CGAA AAUAUUGC	16040
5578	CAGGCACU U CAGAUCCA	733	UGGAUCUG CUGAUGAG GCCGUUAGGC	CGAA AGUGCCUG	16041
5579	AGGCACU C AGAUCCA	734	AUGGAUCU CUGAUGAG GCCGUUAGGC	CGAA AAGUGCCU	16042
5584	CUUCAGAU C CAUCCCCA	735	UGGGAUG CUGAUGAG GCCGUUAGGC	CGAA AUCUGAAG	16043
5588	AGAUCCAU U CCCAGAGU	736	ACUCUGGG CUGAUGAG GCCGUUAGGC	CGAA AUGGAUCU	16044
5589	GAUCCAU C CCAGAGUC	737	GACUCUGG CUGAUGAG GCCGUUAGGC	CGAA AUGGAUC	16045
5597	CCCAGAGU C CAUUCAC	738	GUGAAUUG CUGAUGAG GCCGUUAGGC	CGAA ACUCUGGG	16046
5602	AGUCCAAU U CACCAAUU	739	AAUUGGUG CUGAUGAG GCCGUUAGGC	CGAA AUUGGACU	16047
5603	GUCCAAU C ACCAAUUU	740	AAAUUGGU CUGAUGAG GCCGUUAGGC	CGAA AAUUGGAC	16048
5610	UCACCAU U UCCGACUU	741	AAGUCGGA CUGAUGAG GCCGUUAGGC	CGAA AUUGGUGA	16049
5611	CACCAAUU U CCGACUUA	742	UAAGUCGG CUGAUGAG GCCGUUAGGC	CGAA AAUUGGUG	16050
5612	ACCAAUUU C CGACUAC	743	GUAAGUCG CUGAUGAG GCCGUUAGGC	CGAA AAUUGGUG	16051
5618	UUCGACU U ACAGACUG	744	CAGUCUGU CUGAUGAG GCCGUUAGGC	CGAA AGUCGGAA	16052
5619	UCCGACU A CAGACUGA	745	UCAGUCUG CUGAUGAG GCCGUUAGGC	CGAA AAGUCGGA	16053
5631	ACUGAGAU C CCGAUCG	746	CGAUCCGG CUGAUGAG GCCGUUAGGC	CGAA AUCUCAGU	16054
5638	UCCCGGAU C GAGCUUGG	747	CCAAGCUC CUGAUGAG GCCGUUAGGC	CGAA AUCCGGGA	16055
5644	AUCGAGCU U GGAACUCU	748	AGAGUUC CUGAUGAG GCCGUUAGGC	CGAA AGCUCGAU	16056
5651	UUGGAACU C UGGAUACG	749	CGUAUCCA CUGAUGAG GCCGUUAGGC	CGAA AGUCCAA	16057
5657	CUCUGGAU A CGAAUGGA	750	UCCAUCG CUGAUGAG GCCGUUAGGC	CGAA AUCCAGAG	16058
5667	GAAUGGAU C ACAGAAUA	751	UAUUCUGU CUGAUGAG GCCGUUAGGC	CGAA AUCCAUUC	16059
5675	CACAGAAU A CACCGGGA	752	UCCCGGUG CUGAUGAG GCCGUUAGGC	CGAA AUUCUGUG	16060

Table III

5691	AAGACGGU U UGGUUGU	753	ACAAACCA CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCU	16061
5692	AGACGGU U GGUUUGU	754	CACAAACC CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCU	16062
5696	GGUUGGU U UGUGCUA	755	UAGGCACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAACC	16063
5697	GUUUGGU U GUGCCUAG	756	CUAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AACCAAAC	16064
5704	UUGUGCCU A GUGUCAAG	757	CUUGACAC CUGAUGAG	GCCGUUAGGC	CGAA AGGCACAA	16065
5709	CCUAGUGU C AAGAUGGG	758	CCCAUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUAGG	16066
5727	AAUGAGAU U GCCCUUUG	759	CAAAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAU	16067
5733	AUUGCCCU U UGCCUACA	760	UGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAAU	16068
5734	UUGCCCUU U GCCUACAA	761	UUGUAGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCAA	16069
5739	CUUUGCCU A CAACGUGC	762	GCACGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAAG	16070
5760	AAGAAAGU A GUCCAATU	763	AAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCU	16071
5763	AAAGUAGU C CAAUGAA	764	UUCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUACU	16072
5768	AGUCCAATU U GAACAGAA	765	UUCUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	16073
5780	CAGAAAGU C GUACGAGA	766	UCUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUG	16074
5783	AAAGUCGU A CGAGACGG	767	CCGUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGACU	16075
5795	GACGGAGU A CCCAAAU	768	AUUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCGUC	16076
5806	CAAAAGU A AGAACGAU	769	AUCGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUG	16077
5818	ACGAUGAU U GGGACUUU	770	AAAGUCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCU	16078
5825	UUGGGACU U UGUUAUCA	771	UGAUAAAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCCAA	16079
5826	UGGGACUU U GUUAUCAC	772	GUGAUAAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCA	16080
5829	GACUUUGU U AUCACAAC	773	GUUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUC	16081
5830	ACUUUGUU A UCACAACA	774	UGUUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGU	16082
5832	UUUGUUU C ACAACAGA	775	UCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUAACAAA	16083
5844	ACAGACAU A UCUGAAAU	776	AUUUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUGU	16084
5846	AGACAUU C UGAAUUGG	777	CCAUUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGUCU	16085
5860	UGGGGGCU A ACUUCAG	778	CUUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCCA	16086
5864	GGCUAACU U CAAGGCGA	779	UCGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAGCC	16087
5865	GCUAACUU C AAGGCGAG	780	CUCGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAGC	16088
5883	AGGGUGAU U GACAGCCG	781	CGGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACCU	16089
5913	CCAACCAU C AUAACAGA	782	UCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGG	16090
5916	ACCAUCAU A ACAGAAGG	783	CCUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGU	16091
5940	AGAGUGAU C CUGGAGA	784	UCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUCACUCU	16092
5954	AGAACCAU C UGCAGUGA	785	UCACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUCU	16093
5971	CAGCAGCU A GUGCCGCC	786	GGCGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUG	16094
5995	GUGGACGU A UCGGUAGA	787	UCUACCGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCAC	16095
5997	GGACGUU C GGUAGAA	788	UUUCUACC CUGAUGAG	GCCGUUAGGC	CGAA AUACGUCC	16096
6001	GUUACGGU A GAAAUCCG	789	CGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCGAUAC	16097
6007	GUAGAAU C CGUCGCA	790	UUGCGACG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUAC	16098
6011	AAAUCCGU C GCAAGUUG	791	CAACUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGGAUUU	16099
6018	UCGCAAGU U GGUGAUGA	792	UACUACC CUGAUGAG	GCCGUUAGGC	CGAA ACUUGCGA	16100
6029	UGAUGAGU A CUGUUAUG	793	CAUAAACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCAU	16101
6034	AGUACUGU U AUGGGGGG	794	CCCCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACU	16102
6035	GUACUGUU A UGGGGGGC	795	GCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAGUAC	16103
6062	AGACGACU C GAACUUCG	796	CGAAGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCGUCU	16104
6068	CUCGAACU U CGCCCAU	797	AAUGGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGAG	16105
6069	UCGAACUU C GCCCAUUG	798	CAAUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUCGA	16106
6076	UCGCCCAU U GGACUGAG	799	CUCAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGGGCGA	16107
6093	GCACGAU C AUGCUGGA	800	UCCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGUGC	16108
6108	GACAACAU C AACAUGCC	801	GGCAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGUC	16109
6129	GGACUGAU C GCUCAAU	802	AAUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUCC	16110
6133	UGAUCGCU C AAUUCUAC	803	GUAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGAUCA	16111
6137	CGUCAAU U CUACCAAC	804	GUUGGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGCG	16112
6138	GCUCAAU C UACCAACC	805	GGUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAGC	16113
6140	UCAAUUCU A CCAACCAG	806	CUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUGA	16114
6162	GAGAAGU A UAUACCAU	807	AUGGUUA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCUC	16115
6164	GAAGGUU A UACCAUGG	808	CCAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUACUUC	16116
6166	AGGUUAU A CCAUGGAU	809	AUCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACCU	16117
6182	UGGGGAU A CCGGCUCA	810	UGAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCCA	16118
6189	UACCGGCU C AGAGGAGA	811	UCUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGUA	16119
6212	AAAAACU U UCUGGAAC	812	GUUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUU	16120
6213	AAAAACUU U CUGGAACU	813	AGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUUU	16121
6214	AAAACUU C UGGAACUG	814	CAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUUU	16122
6224	GGAACUGU U GAGGACUG	815	CAGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUCC	16123

Table III

6238	CUGCAGAU C UGCCAGUU	816	AACUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCAG	16124
6246	CUGCCAGU U UGGCUGGC	817	GCCAGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGCAG	16125
6247	UGCCAGUU U GGCUGGCU	818	AGCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AACUGGCA	16126
6256	GGCUGGCU U ACAAGGUU	819	AACCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGCC	16127
6257	GCUGGCUU A CAAGGUUG	820	CAACCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAGC	16128
6264	UACAAGGU U GCAGCGGC	821	GCCGCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUGUA	16129
6281	UGGAGUGU C AUACCACG	822	CGUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	16130
6284	AGUGUCAU A CCACGACC	823	GGUCGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGACACU	16131
6305	GUGGUGCU U UGAUGGUC	824	GACCAUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCACCAC	16132
6306	UGGUGCUU U GAUGGUCC	825	GGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCACC	16133
6313	UUGAUGGU C CUAGGACA	826	UGUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	16134
6316	AUGGUCCU A GGACAAAC	827	GUUUGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACCAU	16135
6330	AACACAAU U UAGAAGA	828	UCUUCUAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGUU	16136
6331	ACACAAUU U UAGAAGAC	829	GUCUUCUA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGUGU	16137
6332	CACAAUUU U AGAAGACA	830	UGUCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGUG	16138
6333	ACAAUUUU A GAAGACAA	831	UUGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUGU	16139
6357	GUGGAAGU C AUCACGAA	832	UUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAC	16140
6360	GAAGUCAU C ACGAAGCU	833	AGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACUUC	16141
6369	ACGAAGCU U GGUGAAAG	834	CUUUCACC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGU	16142
6384	AGGAAGAU U CUGAGGCC	835	GGCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCU	16143
6385	GGAAAGAU C UGAGGCCG	836	CGGCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCUCC	16144
6402	CGCUGGAU U GACGCCAG	837	CUGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGCG	16145
6416	CAGGGUGU A CUCGGAUC	838	GAUCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCUG	16146
6419	GGUGUACU C GGAUCACC	839	GGUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGUACACC	16147
6424	ACUCGGAU C ACCAGGCA	840	UGCCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCGAGU	16148
6435	CAGGCACU A AAGGCGUU	841	AACGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCUG	16149
6443	AAAGGCGU U CAAGGACU	842	AGUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCCUU	16150
6444	AAGGCGUU C AAGGACUU	843	AAGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AACGCCUU	16151
6452	CAAGGACU U CGCCUCGG	844	CCGAGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUUG	16152
6453	AAGGACUU C GCCUCGGG	845	CCCAGGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCUU	16153
6458	CUUCGCCU C GGGAAAAC	846	GUUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGCGGAAG	16154
6469	GAAAACGU U CUCAGAU	847	UAUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUU	16155
6470	AAAACGUU C UCAGAUAG	848	CUAUCUGA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUUU	16156
6472	AACGUUCU C AGAUAGGG	849	CCCUAUCU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUU	16157
6477	UCUCAGAU A GGCUCAU	850	AUGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGAGA	16158
6483	AUAGGGCU C AUUGAGGU	851	ACCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCUAU	16159
6486	GGGCUCAU U GAGGUUCU	852	AGAACCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCC	16160
6492	AUUGAGGU U CUGGGAAA	853	UUUCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAU	16161
6493	UUGAGGUU C UGGGAAG	854	CUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AACCCUAA	16162
6515	UGAGCACU U CAUGGGGA	855	UUCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUCA	16163
6516	GAGCACUU C AUGGGGAA	856	UUCCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGUCUC	16164
6540	GAAGCACU U GACACCAU	857	AUGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUUC	16165
6551	CACCAUGU A CGUUGUGG	858	CCACAACG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGUG	16166
6555	AUGUACGU U GUGGCCAC	859	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACGUACAU	16167
6586	GAAGAGCU C ACAGAAUG	860	CAUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUUC	16168
6619	CAGAUGC U UUCAGACA	861	UGUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCUG	16169
6621	GAUGCUCU U CAGACAAU	862	AUUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAUC	16170
6622	AUGCUCUU C AGACAAU	863	AAUUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AAGACAU	16171
6630	CAGACAAU U GCCUUGAU	864	AUCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCUG	16172
6635	AAUUGCCU U GAUUGCCU	865	AGGCAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAUU	16173
6639	GCCUUGAU U GCCUUAU	866	AAUAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGGC	16174
6644	GAUUGCCU U AUUGAGUG	867	CACUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUUC	16175
6645	AUUGCCUU A UUGAGUGU	868	ACACUCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCAAU	16176
6647	UGCCUUAU U GAGUGUGA	869	UCACACUC CUGAUGAG	GCCGUUAGGC	CGAA AUAAGGCA	16177
6669	AUGGGAGU A UUCUCCU	870	AGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCAU	16178
6671	GGGAGUAU U CUUCCUCC	871	GGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AUACUCCC	16179
6672	GGAGUAUU C UUCUCCU	872	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUACUCC	16180
6674	AGUAUUCU U CCUCCUCA	873	UGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUACU	16181
6675	GUUAUUCU C CUCCUCAU	874	AUGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUAC	16182
6678	UUCUCCU C CUCAUGCA	875	UGCAUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAA	16183
6681	UUCUCCU C AUGCAGCG	876	CGCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	16184
6699	AAGGGCAU U GGAAAGAU	877	AUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCUU	16185
6708	GGAAAGAU A GGUUUGG	878	CCCAAACC CUGAUGAG	GCCGUUAGGC	CGAA AUCUUUCC	16186

Table III

6712	AGAUAGGU U UGGGAGGC	879	GCCUCCCA CUGAUGAG GCCGUUAGGC	CGAA ACCUAUCU	16187
6713	GAUAGGUU U GGGAGGCG	880	CGCCUCCC CUGAUGAG GCCGUUAGGC	CGAA AACCUAUC	16188
6726	GGCGCUGU C UUGGGAGU	881	ACUCCCAA CUGAUGAG GCCGUUAGGC	CGAA ACAGCGCG	16189
6728	CGCUGUCU U GGGAGUCG	882	CGACUCCC CUGAUGAG GCCGUUAGGC	CGAA AGACAGCG	16190
6735	UUGGGAGU C GCGACCUU	883	AAGGUCGC CUGAUGAG GCCGUUAGGC	CGAA ACUCCCAA	16191
6743	CGCGACCU U UUCUGUU	884	AACAGAAA CUGAUGAG GCCGUUAGGC	CGAA AGGUCGCG	16192
6744	GCGACCUU U UUCUGUUG	885	CAACAGAA CUGAUGAG GCCGUUAGGC	CGAA AAGGUCGC	16193
6745	CGACCUUU U UCUGUUGG	886	CCAACAGA CUGAUGAG GCCGUUAGGC	CGAA AAAGGUCG	16194
6746	GACCUUUU U CUGUUGGA	887	UCCAACAG CUGAUGAG GCCGUUAGGC	CGAA AAAAGGUC	16195
6747	ACCUUUUU C UGUUGGAU	888	AUCCAACA CUGAUGAG GCCGUUAGGC	CGAA AAAAAGGU	16196
6751	UUUUCUGU U GGAUGGCU	889	AGCCAUCC CUGAUGAG GCCGUUAGGC	CGAA ACAGAAAA	16197
6765	GCUGAAGU U CCAGGAAC	890	GUUCCUGG CUGAUGAG GCCGUUAGGC	CGAA ACUCCAGC	16198
6766	CUGAAGUU C CAGGAACG	891	CGUUCCTG CUGAUGAG GCCGUUAGGC	CGAA AACUUCAG	16199
6780	ACGAAGAU C GCCGGAU	892	AUUCCGGC CUGAUGAG GCCGUUAGGC	CGAA AUCUUCGU	16200
6791	CGGAUUGU U GCUGUCU	893	AGAGCAGC CUGAUGAG GCCGUUAGGC	CGAA ACAUCCG	16201
6798	UUGCUGCU C UCCCUUCU	894	AGAAGGGA CUGAUGAG GCCGUUAGGC	CGAA AGCAGCAA	16202
6800	GCUGCUCU C CCUUCUCU	895	AGAGAAGG CUGAUGAG GCCGUUAGGC	CGAA AGAGCAGC	16203
6804	CUCUCCCU U CUCUUGAU	896	AUCAAGAG CUGAUGAG GCCGUUAGGC	CGAA AGGGAGAG	16204
6805	UCUCCCUU C UCUUGAUG	897	CAUCAAGA CUGAUGAG GCCGUUAGGC	CGAA AAGGGAGA	16205
6807	UCCCUUCU C UUGAUGAU	898	AUCAUCAA CUGAUGAG GCCGUUAGGC	CGAA AGAAGGGA	16206
6809	CCUUCUCU U GAUGAUUG	899	CAUAUAC CUGAUGAG GCCGUUAGGC	CGAA AGAGAAGG	16207
6816	UUGAUGAU U GUGCUAAU	900	AUUAAGC CUGAUGAG GCCGUUAGGC	CGAA AUCAUCAA	16208
6822	AUUGUGCU A AUUCCUGA	901	UCAGGAU CUGAUGAG GCCGUUAGGC	CGAA AGCACAAU	16209
6825	GUGCUAAU U CCUGAGCC	902	GGCUCAG CUGAUGAG GCCGUUAGGC	CGAA AUUAGCAC	16210
6826	UGCUAUU C CUGAGCCA	903	UGGUCAG CUGAUGAG GCCGUUAGGC	CGAA AAUUAAGCA	16211
6847	AGCAACGU U CGCAGACA	904	UGUCUGCG CUGAUGAG GCCGUUAGGC	CGAA ACGUUGCU	16212
6848	GCAACGUU C GCAGACAG	905	CUGUCUGC CUGAUGAG GCCGUUAGGC	CGAA AACGUUGC	16213
6867	AACACGCU A GCCGUGUU	906	AACACGGC CUGAUGAG GCCGUUAGGC	CGAA AGCUGGUU	16214
6875	AGCCGUGU U CCUGAUUU	907	AAAUACAG CUGAUGAG GCCGUUAGGC	CGAA ACACGGCU	16215
6876	GCCGUGUU C CUGAUUUG	908	CAAAUCAG CUGAUGAG GCCGUUAGGC	CGAA AACACGGC	16216
6882	UUCUGAU U UGUGUCAU	909	AUGACACA CUGAUGAG GCCGUUAGGC	CGAA AUCAGGAA	16217
6883	UCCUGAUU U GUGUCAUG	910	CAUGACAC CUGAUGAG GCCGUUAGGC	CGAA AAUCAGGA	16218
6888	AUUUGUGU C AUGACCCU	911	AGGGUCAU CUGAUGAG GCCGUUAGGC	CGAA ACACAAAU	16219
6897	AUGACCCU U GUGAGCGC	912	GCGCUCAC CUGAUGAG GCCGUUAGGC	CGAA AGGUGCAU	16220
6928	AGAUGGGU U GGUAGAU	913	AUCUAGCC CUGAUGAG GCCGUUAGGC	CGAA ACCCAUCU	16221
6933	GGUUGGCU A GAUAAGAC	914	GUCUUAUC CUGAUGAG GCCGUUAGGC	CGAA AGCCAACC	16222
6937	GGCUAGAU A AGACCAAG	915	CUUGGUCU CUGAUGAG GCCGUUAGGC	CGAA AUCUAGCC	16223
6954	AGUGACAU A AGCAGUUU	916	AAACUGCU CUGAUGAG GCCGUUAGGC	CGAA AUGUCACU	16224
6961	UAAGCAGU U UGUUUGGG	917	CCCAAACA CUGAUGAG GCCGUUAGGC	CGAA ACUGCUUA	16225
6962	AAGCAGUU U GUUUGGGC	918	GCCCAAAC CUGAUGAG GCCGUUAGGC	CGAA AACUGCUU	16226
6965	CAGUUUGU U UGGGCAA	919	UUUGCCCA CUGAUGAG GCCGUUAGGC	CGAA ACAACUCG	16227
6966	AGUUUGUU U GGGCAAAG	920	CUUUGCCC CUGAUGAG GCCGUUAGGC	CGAA AACAAACU	16228
6978	CAAAGAAU U GAGGUCAA	921	UUGACCUC CUGAUGAG GCCGUUAGGC	CGAA AUUCUUUG	16229
6984	AUUGAGGU C AAGGAGAA	922	UUCUCCUU CUGAUGAG GCCGUUAGGC	CGAA ACCUCAAU	16230
6994	AGGAGAAU U UCAGCAUG	923	CAUGCUGA CUGAUGAG GCCGUUAGGC	CGAA AUUCUCCU	16231
6995	GGAGAAUU U CAGCAUGG	924	CCAUGCUG CUGAUGAG GCCGUUAGGC	CGAA AAUUCUCC	16232
6996	GAGAAUUU C AGCAUGGG	925	CCCAUGCU CUGAUGAG GCCGUUAGGC	CGAA AAAUUCUC	16233
7010	GGGAGAGU U UCUUUGG	926	CCAAAAGA CUGAUGAG GCCGUUAGGC	CGAA ACUCUCCC	16234
7011	GGAGAGUU U CUUUUGGA	927	UCCAAAAG CUGAUGAG GCCGUUAGGC	CGAA AACUCUCC	16235
7012	GAGAGUUU C UUUUGGAC	928	GUCCAAA CUGAUGAG GCCGUUAGGC	CGAA AAACUCUC	16236
7014	GAGUUUCU U UUGGACUU	929	AAGUCCAA CUGAUGAG GCCGUUAGGC	CGAA AGAAACUC	16237
7015	AGUUUCUU U UGGACUUG	930	CAAGUCCA CUGAUGAG GCCGUUAGGC	CGAA AAGAAACU	16238
7016	GUUUUCUU U GGACUUGA	931	UCAAGUCC CUGAUGAG GCCGUUAGGC	CGAA AAAGAAAC	16239
7022	UUUGGACU U GAGGCCGG	932	CCGGCCUC CUGAUGAG GCCGUUAGGC	CGAA AGUCCAAA	16240
7043	AGCCUGGU C ACUGUACG	933	CGUACAGU CUGAUGAG GCCGUUAGGC	CGAA ACCAGGCU	16241
7049	GUCACUGU A CGCUGUGA	934	UCACAGCG CUGAUGAG GCCGUUAGGC	CGAA ACAGUGAC	16242
7068	ACAGCGGU C CUCACUCC	935	GGAGUGAG CUGAUGAG GCCGUUAGGC	CGAA ACCGUGU	16243
7071	GCGGUCCU C ACUCCACU	936	AGUGGAGU CUGAUGAG GCCGUUAGGC	CGAA AGGACCGC	16244
7075	UCCUCACU C CACUGCUA	937	UAGCAGUG CUGAUGAG GCCGUUAGGC	CGAA AGUGAGGA	16245
7083	CCACUGCU A AAGCAUUU	938	AAUUGCUU CUGAUGAG GCCGUUAGGC	CGAA AGCAGUGG	16246
7090	UAAAGCAU U UGAUCAG	939	CGUGAUCA CUGAUGAG GCCGUUAGGC	CGAA AUGCUUUA	16247
7091	AAAGCAUU U GAUCAUGU	940	ACUGAUC CUGAUGAG GCCGUUAGGC	CGAA AAUGCUUU	16248
7095	CAUUUGAU C ACGUCAGA	941	UCUGACGU CUGAUGAG GCCGUUAGGC	CGAA AUCAAUUG	16249

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7100	GAUCACGU C AGAUUACA	942	UGUAAUCU CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAUC	16250
7105	CGUCAGAU U ACAUCAAC	943	GUUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGACG	16251
7106	GUCAGAUU A CAUCAACA	944	UGUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCUGAC	16252
7110	GAUUAACU C AACACCUC	945	GAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGUAADU	16253
7118	CAACACCU C AUGACCU	946	AGGUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUG	16254
7121	CACCUCU U GACCUCAA	947	UUGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGUG	16255
7127	AUUGACCU C AAUAAACG	948	CGUUUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAU	16256
7131	ACCUCAAU A AACGUUCA	949	UGAACGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGGU	16257
7137	AUAAACGU U CAGGCAAG	950	CUUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUAU	16258
7138	UAAACGUU C AGGCAAGU	951	ACUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUUA	16259
7152	AGUGCACTU A UUCACACU	952	AGUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGACAU	16260
7154	UGCACUUAU U CACACUCG	953	CGAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCA	16261
7155	GCACUAUU C ACACUCGC	954	GCGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUGC	16262
7161	UUCACACU C GCGCGAGG	955	CCUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAA	16263
7172	GCGAGGCU U CCCUUCG	956	CGAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCGC	16264
7173	CGAGGCUU C CCCUUCG	957	ACGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUCG	16265
7178	CUUCCCCU U CGUCGAUG	958	CAUCGACG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGAAG	16266
7179	UUCCCCCU C GUCGAUGU	959	ACAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGAA	16267
7182	CCCUUCGU C GAUGUUGG	960	CCAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGGG	16268
7188	GUCGAUGU U GGAGUGUC	961	GACACUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGAC	16269
7196	UGGAGUGU C GGCUCUCC	962	GGAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	16270
7201	UGUCGGCU C UCCUGCUA	963	UAGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGACA	16271
7203	UCGGCUCU C CUGCUAGC	964	GCUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCGA	16272
7209	CUCUCGUU A GCAGCCGG	965	CCGCGUCG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGAG	16273
7233	GGACAAGU C ACCCUCAC	966	GUGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUCC	16274
7239	GUCACCCU C ACCGUUAC	967	GUAACGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGAC	16275
7245	CUCACCGU U ACGGUAAC	968	GUUACCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAG	16276
7246	UCACCGUU A CGGUAACA	969	UGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA AACGGUGA	16277
7251	GUUACGGU A ACAGCGGC	970	GCCGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAAC	16278
7266	GCAACACU C CUUUUUUG	971	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUGC	16279
7269	ACACUCCU U UUUUGCCA	972	UGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	16280
7270	CACUCCUU U UUUGCCAC	973	UGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	16281
7271	ACUCCUUU U UUGCCACU	974	AGUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGU	16282
7272	CUCUUUUU U UGCCACUA	975	UAGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGAG	16283
7273	UCCUUUUU U GCCACUAU	976	AUAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGA	16284
7280	UUGCCACU A UGCCUACA	977	UGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCAA	16285
7286	CUAUGCCU A CAUGGUUC	978	GAACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUAG	16286
7293	UAUAGGUU U CCGGUUG	979	CAACCGGG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGUA	16287
7294	ACUUGGUU C CCGGUUGG	980	CAACCGGG CUGAUGAG	GCCGUUAGGC	CGAA AACCAUGU	16288
7300	UUCGCCGU U GGCAAGCU	981	AGCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGGAA	16289
7322	AAUGCGCU C AGCCCAGC	982	GCUGGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAUU	16290
7350	GCCGGAU C AUGAAGAA	983	UUCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGGC	16291
7365	AACGCUGU A GUGGAUGG	984	CAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGUU	16292
7377	GAUGGCAU C GUGGCCAC	985	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAUC	16293
7392	ACGGACGU C CCAGAAUU	986	AAUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCGU	16294
7400	CCCAGAAU U AGAGCGCA	987	UGCGCUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGGG	16295
7401	CCAGAAUU A GAGCGCAC	988	GUGCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGG	16296
7419	ACACCCAU C AUGCAGAA	989	UUCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUGU	16297
7434	AAGAAAGU U GGACAGAU	990	AUCUGUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUUU	16298
7443	GGACAGAU C AUGCUGAU	991	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUCC	16299
7452	AUGCUGAU C UUGGUGUC	992	GACACCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	16300
7454	GCUGAUCU U GGUGUCUC	993	GAGACACC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGC	16301
7460	CUUGGUGU C UCUAGCUG	994	CAGCUAGA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAG	16302
7462	UGGUGUCU C UAGCUGCA	995	UGCAGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGACACCA	16303
7464	GUGUCUCU A GCUGCAGU	996	ACUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGACAC	16304
7473	GCUGCAGU A GUAGUGAA	997	UUCACUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGC	16305
7476	GCAGUAGU A GUGAACCC	998	GGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGC	16306
7487	GAACCCGU C UGUGAAGA	999	UCUUCACA CUGAUGAG	GCCGUUAGGC	CGAA ACGGGUUC	16307
7500	AAGACAGU A CGAGAAGC	1000	GCUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUCUU	16308
7515	GCCGGAU U UGAUCAC	1001	GUGAUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGGC	16309
7516	CCGGAUUU U UGAUCACG	1002	CGUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGGG	16310
7517	CGGAUUUU U GAUCACGG	1003	CCGUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGCG	16311
7521	AUUUUGAU C ACGGCCGC	1004	GCGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAAAU	16312

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7542	GUGACGCU U UGGGAGAA	1005	UUCUCCCA CUGAUGAG GCCGUUAGGC	CGAA AGCGUCAC	16313
7543	UGACGCUU U GGGAGAAU	1006	AUUCUCCC CUGAUGAG GCCGUUAGGC	CGAA AAGCGUCA	16314
7562	AGCAAGCU C UGUUUGGA	1007	UCCAAACA CUGAUGAG GCCGUUAGGC	CGAA AGCUUGCU	16315
7566	AGCUCUGU U UGGAACGC	1008	GCGUCCA CUGAUGAG GCCGUUAGGC	CGAA ACAGAGCU	16316
7567	GCUCUGUU U GGAACGCA	1009	UGCUGUCC CUGAUGAG GCCGUUAGGC	CGAA AACAGAGC	16317
7587	ACUGCCAU C GGACUCUG	1010	CAGAGUCC CUGAUGAG GCCGUUAGGC	CGAA AUGGCAGU	16318
7593	AUCGGACU C UGCCACAU	1011	AUGUGGCA CUGAUGAG GCCGUUAGGC	CGAA AGUCCGAU	16319
7602	UGCCACAU C AUGCGUGG	1012	CCACGCAU CUGAUGAG GCCGUUAGGC	CGAA AUGUGGCA	16320
7615	UGGGGGU U GGUUGUCA	1013	UGACAACC CUGAUGAG GCCGUUAGGC	CGAA ACCCCAC	16321
7619	GGGUUGU U GUCAUGUC	1014	GACAUGAC CUGAUGAG GCCGUUAGGC	CGAA ACCAACCC	16322
7622	UUGGUUGU C AUGUCUAU	1015	AUAGACA CUGAUGAG GCCGUUAGGC	CGAA ACAACCAA	16323
7627	UGUCAUGU C UAUCCAUA	1016	UAUGGAU CUGAUGAG GCCGUUAGGC	CGAA ACAUGACA	16324
7629	UCAUGUCU A UCCAUAAC	1017	GUUAUGGA CUGAUGAG GCCGUUAGGC	CGAA AGACAUGA	16325
7631	AUGUCUAU C CAUAACAU	1018	AUGUUAUG CUGAUGAG GCCGUUAGGC	CGAA AUAGACAU	16326
7635	CUAUCCA A ACAUGGAC	1019	GUCCAUGU CUGAUGAG GCCGUUAGGC	CGAA AUGGAUAG	16327
7647	UGGACACU C AUAAAGAA	1020	UUCUUUAU CUGAUGAG GCCGUUAGGC	CGAA AGUGUCCA	16328
7650	ACACUCAU A AAGAACA	1021	AUGUUCU CUGAUGAG GCCGUUAGGC	CGAA AUGAGUGU	16329
7674	CCAGGACU A AAAAGAGG	1022	CCUCUUU CUGAUGAG GCCGUUAGGC	CGAA AGUCCUGG	16330
7703	ACGCACCU U GGGAGAGG	1023	CCUCUCCC CUGAUGAG GCCGUUAGGC	CGAA AGGUGCGU	16331
7713	GGAGAGGU U UGGAAGAA	1024	UCUUUCCA CUGAUGAG GCCGUUAGGC	CGAA ACCUCUCC	16332
7714	GAGAGGUU U GGAAGAA	1025	UUCUUUCC CUGAUGAG GCCGUUAGGC	CGAA AACCUCUC	16333
7728	GAAAGACU C AACCAGAU	1026	AUCUGGUU CUGAUGAG GCCGUUAGGC	CGAA AGUCUUUC	16334
7751	AGAAGAGU U CACUAGGU	1027	ACCUGAGU CUGAUGAG GCCGUUAGGC	CGAA ACUCUUUC	16335
7752	GAGAGGUU C ACUAGGUA	1028	UACCUAGU CUGAUGAG GCCGUUAGGC	CGAA AACUCUUC	16336
7756	AGUUCACU A GGUACCGC	1029	GCGUACC CUGAUGAG GCCGUUAGGC	CGAA AGUGAACU	16337
7760	CACUAGGU A CCGCAAAG	1030	CUUUGCG CUGAUGAG GCCGUUAGGC	CGAA ACCUAGUG	16338
7776	GAGGCCAU C AUCGAAGU	1031	ACUUCGAU CUGAUGAG GCCGUUAGGC	CGAA AUGGCCUC	16339
7779	GCCAUCAU C GAAGUCGA	1032	UCGACUUC CUGAUGAG GCCGUUAGGC	CGAA AUGAUGGC	16340
7785	AUCGAAGU C GAUCGCUC	1033	GAGCGAUC CUGAUGAG GCCGUUAGGC	CGAA ACUUCGAU	16341
7789	AAGUCGAU C GCUCAGCG	1034	CGCUGAGC CUGAUGAG GCCGUUAGGC	CGAA AUCGACUU	16342
7793	CGAUCGCU C AGCGGCAA	1035	UUGCCGCU CUGAUGAG GCCGUUAGGC	CGAA AGCGAUCG	16343
7827	GGCAUGU C ACUGGAGG	1036	CCUCCAGU CUGAUGAG GCCGUUAGGC	CGAA ACAUUGCC	16344
7840	GAGGGCAU C CAGUCUCU	1037	AGAGACU CUGAUGAG GCCGUUAGGC	CGAA AUGCCUCC	16345
7845	CAUCCAGU C UCUGGGG	1038	CCCCUAGA CUGAUGAG GCCGUUAGGC	CGAA AUGCGAUG	16346
7847	UCCAGUCU C UAGGGGCA	1039	UGCCCCUA CUGAUGAG GCCGUUAGGC	CGAA AGACUGGA	16347
7849	CAGUCUCU A GGGGCACA	1040	UGUGCCCC CUGAUGAG GCCGUUAGGC	CGAA AGAGACUG	16348
7878	UGGCUUGU C GAACGGAG	1041	CUCCGUUC CUGAUGAG GCCGUUAGGC	CGAA ACCAGCCA	16349
7889	ACGAGGU U UCUGAAC	1042	GUUCGAGA CUGAUGAG GCCGUUAGGC	CGAA ACCUCCGU	16350
7890	CGGAGGUU U CUCGAACC	1043	GGUUCGAG CUGAUGAG GCCGUUAGGC	CGAA AACCUCGC	16351
7891	GGAGGUUU C UCGAACCG	1044	GCGUUCGA CUGAUGAG GCCGUUAGGC	CGAA AAACCUCC	16352
7893	AGGUUUCU C GAACCGGU	1045	ACCGGUUC CUGAUGAG GCCGUUAGGC	CGAA AGAAACCU	16353
7902	GAACCGGU C GGAAAAGU	1046	ACUUUUCC CUGAUGAG GCCGUUAGGC	CGAA ACCGGUUC	16354
7914	AAAGUGAU U GACCUUGG	1047	CCAAGGUC CUGAUGAG GCCGUUAGGC	CGAA AUCACUUU	16355
7920	AUUGACCU U GGAUGUGG	1048	CCACAUC CUGAUGAG GCCGUUAGGC	CGAA AGGUCAU	16356
7939	GAGGCGGU U GGUUUAU	1049	GUAAACAC CUGAUGAG GCCGUUAGGC	CGAA ACCGCCUC	16357
7945	GUUGGUGU U ACUAUAUG	1050	CAUAUAGU CUGAUGAG GCCGUUAGGC	CGAA ACACCAAC	16358
7946	UUGGUGU A CUUAUUGG	1051	CCAUAUAG CUGAUGAG GCCGUUAGGC	CGAA AACACCAA	16359
7949	GUGUUAU A UAUGGCAA	1052	UUGCCAUA CUGAUGAG GCCGUUAGGC	CGAA AGUAACAC	16360
7951	GUUAUAU A UGGCAACC	1053	GGUUGCCA CUGAUGAG GCCGUUAGGC	CGAA AUAGUAAC	16361
7971	AAAAGAGU C CAAGAAGU	1054	ACUUCUUG CUGAUGAG GCCGUUAGGC	CGAA ACUCUUU	16362
7980	CAAGAAGU C AGAGGGUA	1055	UACCCUCU CUGAUGAG GCCGUUAGGC	CGAA ACUUCUUG	16363
7988	CAGAGGU A CACAAAGG	1056	CCUUGUG CUGAUGAG GCCGUUAGGC	CGAA ACCUCUCG	16364
8002	AGGGCGGU C CCGGACAU	1057	AUGUCCGG CUGAUGAG GCCGUUAGGC	CGAA ACCGCCCU	16365
8025	CCCCAACU A GUGCAAAG	1058	CUUUGCAC CUGAUGAG GCCGUUAGGC	CGAA AGUUGGGG	16366
8035	UGCAAAGU U AUGGAUGG	1059	CCAUCCA CUGAUGAG GCCGUUAGGC	CGAA ACUUUGCA	16367
8036	GCAAAGUU A UGGAUGGA	1060	UCCAUCCA CUGAUGAG GCCGUUAGGC	CGAA AACUUUGC	16368
8049	UGGAACAU U GUCACCAU	1061	AUGGUGAC CUGAUGAG GCCGUUAGGC	CGAA AUGUCCA	16369
8052	AAAUUGU C ACCAUGAA	1062	UUAUGGU CUGAUGAG GCCGUUAGGC	CGAA ACAAUUUU	16370
8078	GGAUGUGU U CUACAGAC	1063	GUCUGUAG CUGAUGAG GCCGUUAGGC	CGAA ACACAUC	16371
8079	GAUGUGUU C UACAGACC	1064	GGUCUGUA CUGAUGAG GCCGUUAGGC	CGAA AACACAU	16372
8081	UGUGUUCU A CAGACCUU	1065	AAGGUCUG CUGAUGAG GCCGUUAGGC	CGAA AGAACACA	16373
8089	ACAGACCU U CUGAGUGU	1066	ACACUCAG CUGAUGAG GCCGUUAGGC	CGAA AGGUCUGU	16374
8090	CAGACCUU C UGAGUGUU	1067	AACACUCA CUGAUGAG GCCGUUAGGC	CGAA AAGGUCUG	16375

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8098	CUGAGUGU U GUGACACC	1068	GGUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCAG	16376
8109	GACACCCU C CUUUGUGA	1069	UCACAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGUC	16377
8112	ACCCUCCU U UGUGACAU	1070	AUGUCACA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGGU	16378
8113	CCCUCCU U GUGACAU	1071	GAUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGG	16379
8121	UGUGACAU C GGAGAGUC	1072	GACUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACA	16380
8129	CGGAGAGU C CUCGUCAA	1073	UUGACGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCG	16381
8132	AGAGUCCU C GUCAAGUG	1074	CACUUGAC CUGAUGAG	GCCGUUAGGC	CGAA AGGACUCU	16382
8135	GUCCUCGU C AAGUGCUG	1075	CAGCACUU CUGAUGAG	GCCGUUAGGC	CGAA ACGAGGAC	16383
8148	GCUGAGGU U GAAGAGCA	1076	UGCUCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAGC	16384
8158	AAGACAU A GGACGAU	1077	AAUCGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCU	16385
8166	AGGACGAU U CGGGUCCU	1078	AGGACCCG CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCU	16386
8167	GGACGAU C GGGUCCU	1079	AAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCC	16387
8172	AUUCGGGU C CUUGAAU	1080	AUUUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCGAAU	16388
8175	CGGGUCCU U GAAUUGGU	1081	ACCAUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCG	16389
8184	GAAUUGGU U GAGGACUG	1082	CAGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUUC	16390
8216	AAGGGAU U UUGCGUGA	1083	UCACGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCCCU	16391
8217	AGGGAU U UGCGUGAA	1084	UUCACGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCCU	16392
8218	GGGAUUU U GCGUGAAG	1085	CUUCACGC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUCC	16393
8232	AAGGUGU C UGCCCCUA	1086	UAGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGACCU	16394
8240	CUGCCCU A CAUGCCGA	1087	UCGGCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGAG	16395
8253	CCGAAAGU C AUAGAGAA	1088	UUCUCUUA CUGAUGAG	GCCGUUAGGC	CGAA ACUUCG	16396
8256	AAAGUCAU A GAGAGAU	1089	AUCUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGACUU	16397
8274	GAGCUGU C CAACGCCG	1090	CGGCGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCUC	16398
8285	ACGCCGU A UGGGGGGG	1091	CCCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCGCGU	16399
8301	GGACUGU C AGAAACCC	1092	GGGUUUU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUCC	16400
8313	AACCCACU C UCACGGAA	1093	UUCCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGGU	16401
8315	CCCACUCU C ACGGAU	1094	AAUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGG	16402
8323	CACGGAU U CCACGCAC	1095	GUGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCGUG	16403
8324	ACGGAU C CACGCACG	1096	CGUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGU	16404
8339	CGAGAGU A UUGGGUGA	1097	UCACCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCUG	16405
8341	AGAUGAU U GGGUGAGU	1098	ACUCACCC CUGAUGAG	GCCGUUAGGC	CGAA AUACAU	16406
8350	GGGUGAGU C GAGCUCA	1099	UAGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCACCC	16407
8356	GUCGAGU U CAGGCAU	1100	AUUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGAC	16408
8357	UCGAGCU C AGGCAU	1101	CAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGA	16409
8370	AAUGUGU A CAUUCAGU	1102	ACUGAAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACAU	16410
8374	UGGUACAU U CAGUGAU	1103	AUUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUACCA	16411
8375	GGUACAU C AGUGAAU	1104	UAUUCACU CUGAUGAG	GCCGUUAGGC	CGAA AAUGUACC	16412
8383	CAGUGAU A UGACCAGC	1105	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUCACUG	16413
8400	CAGGUGU C CUAGGAAG	1106	CUUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA AGCACCU	16414
8403	GUGCUCCU A GGAAGAU	1107	AUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAC	16415
8441	ACCCCAU A CGAGGAAG	1108	CUUCCUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGU	16416
8454	GAAGAGU A AACUUGG	1109	CCCAAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCUUC	16417
8459	UGUAAACU U GGAAGUG	1110	CACUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUUUACA	16418
8496	CCCUGU C AACUCAGA	1111	UCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGG	16419
8501	GCUCAACU C AGACACCA	1112	UGGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAGC	16420
8512	ACACCAGU A AAUCAAG	1113	CUUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUGU	16421
8517	AGUAAAU C AAGAACAG	1114	CUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUUUACU	16422
8529	AACAGGAU U GAACGACU	1115	AGUCGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCGUU	16423
8538	GAACGACU C AGGCGUGA	1116	UCACGCCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGUU	16424
8549	GCGUGAGU A CAGUUCGA	1117	UCGAACUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCACGC	16425
8554	AGUACAGU U CGACGUGG	1118	CCACGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUACU	16426
8555	GUACAGU C GACGUGG	1119	GCCACGUC CUGAUGAG	GCCGUUAGGC	CGAA AACUGUAC	16427
8585	CCACCAU A UAGAACCU	1120	AGGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUGG	16428
8587	ACCAUUA C GAACUGG	1121	CCAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGU	16429
8600	CUGGAACU A UCACGGCA	1122	UGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCAG	16430
8602	GGAACU C ACGGCAGU	1123	ACUGCCGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUCC	16431
8611	ACGGCAGU U AUGAGUG	1124	CACAUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCGU	16432
8612	CGGAGU U UGAUGUGA	1125	UCACAUCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCG	16433
8633	CACAGGU C CGCCAGUU	1126	AACUGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGUG	16434
8641	CCGCCAGU U CGCUGGUC	1127	GACCAGCG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGCGG	16435
8642	CGCCAGU C GCUGGUGA	1128	UGACCAG CUGAUGAG	GCCGUUAGGC	CGAA AACUGGCG	16436
8649	UCGUGGU C AAUGGAGU	1129	ACUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCGA	16437
8661	GGAGUGGU C AGGCUCU	1130	AGGAGCCU CUGAUGAG	GCCGUUAGGC	CGAA ACCACUCC	16438

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8667	GUCAGGCU C CUCUCAA	1131	UUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAC	16439
8670	AGGCUCCU C UCAAAACC	1132	GGUUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCCU	16440
8672	GCUCUCU C AAAACCAU	1133	AUGGUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGC	16441
8691	GACACCAU C ACGAUGU	1134	ACAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGUC	16442
8700	ACGAUGU U ACCACCAU	1135	AUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCGU	16443
8701	CGAAUGU A CCACCAUG	1136	CAUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA AACAUUCG	16444
8725	CUGACACU A CUCCCUUC	1137	GAAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCAG	16445
8728	ACACUACU C CCUUCGGG	1138	CCCGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGU	16446
8732	UACUCCCU U CGGGCAGC	1139	GCUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGUA	16447
8733	ACUCCCUU C GGGCAGCA	1140	UGCUGCCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAGU	16448
8750	CGAGUGU U CAAAGAGA	1141	UCUCUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCGC	16449
8751	CGAGUGU C AAAGAGAA	1142	UUCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA AACACUCG	16450
8776	CGAAAGCU C CUGAACCG	1143	CGGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUCG	16451
8801	AGUGAAGU A CGUGCUCU	1144	UGAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACU	16452
8808	UACGUGCU C AAUGAGAC	1145	GUCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCACGUA	16453
8828	CAACUGGU U GUGGGCGU	1146	AGCCCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUUG	16454
8837	GUGGGCGU U UUGGCCA	1147	UGGCCAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCCCAC	16455
8838	UGGGCGUU U UUGGCCAG	1148	CUGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGCCCA	16456
8839	GGGCGUUU U UGCCAGA	1149	UCUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAACGCCC	16457
8840	GGCGUUUU U GGCCAGAG	1150	UCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGCC	16458
8857	AAAAACGU C CCAGAAUG	1151	CAUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUUU	16459
8870	AAUGUGCU C UCGAGAGG	1152	CCUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA AGCACAUU	16460
8872	UGUGCUCU C GAGAGGAA	1153	UUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCACA	16461
8882	AGAGGAU U CAUAAGAA	1154	UUCUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCUCU	16462
8883	GAGGAUU C AUAAGAA	1155	UUUCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUC	16463
8886	GAAUUCAU A AGAAAGGU	1156	ACCUUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUC	16464
8895	AGAAAGGU C AACAGCAA	1157	UUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUCU	16465
8911	AUGCAGCU U UGGUGGCC	1158	GGCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAU	16466
8912	UGCAGCUU U GGGUGCCA	1159	UGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCA	16467
8924	UGCCAUGU U UGAAGAGC	1160	GCUCUUA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGCA	16468
8925	GCCAUGU U GAAGAGCA	1161	UGCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGC	16469
8938	AGCAGAAU C AAUGGAGG	1162	CCUCCAUU CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCU	16470
8964	GAAGCAGU U GAAGAUGC	1163	GGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUUC	16471
8971	UUGAAGAU C CAAAUUU	1164	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUAU	16472
8978	UCCAAAU U UUGGAGA	1165	UCUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGA	16473
8979	CCAAAUU U UGGGAGAU	1166	AUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGG	16474
8980	CAAAAUU U GGGAGAU	1167	CAUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUG	16475
9013	AGGCACAU C UGCGGGG	1168	CCCCCGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCCU	16476
9028	GGGAAUGU C ACACUUGC	1169	GCAAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCC	16477
9034	GUCACACU U GCAUUUAC	1170	GUAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAC	16478
9039	ACUUGCAU U UACAACAU	1171	AUGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUGCAAGU	16479
9040	CUUGCAU U ACAACAU	1172	CAUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCAAG	16480
9041	UUGCAUUU A CAACAUGA	1173	UCAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGCAA	16481
9080	CGGAGAGU U CGGAAAGG	1174	CCUUUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCG	16482
9081	GGAGAGUU C GGAAAGGC	1175	GCCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA AACUCUCC	16483
9108	AGAGCCAU U UGUUCAU	1176	AUGAACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCU	16484
9109	GAGCCAUU U GGUUCAUG	1177	CAUGAACC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCUC	16485
9113	CAUUGGUU U CAUGUGGC	1178	GCCACAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUG	16486
9114	AUUUGGUU C AUGUGGCU	1179	AGCCACAU CUGAUGAG	GCCGUUAGGC	CGAA AACCAAU	16487
9123	AUGUGGCU C GGAGCUCG	1180	CGAGCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCCACAU	16488
9130	UCGGAGCU C GCUUUCUG	1181	CAGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCA	16489
9134	AGCUCGCU U UCUGGAGU	1182	ACUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCGAGCU	16490
9135	GCUCGCUU U CUGGAGUU	1183	AACUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCGAGC	16491
9136	CUCGCUU C UGAGUUC	1184	GAACUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCGAG	16492
9143	UCUGGAGU U CGAGGCUC	1185	GAGCCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAGA	16493
9144	CUGGAGUU C GAGGCUCU	1186	AGAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCCAG	16494
9151	UCGAGGCU C UGGGUUUU	1187	AAAACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCCA	16495
9157	CUCUGGUU U UUCUCAU	1188	AUUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGAG	16496
9158	UCUGGGUU U UCUCAAUG	1189	CAUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA AACCCAGA	16497
9159	CUGGGUUU U CUCAAUGA	1190	UCAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAACCCAG	16498
9160	UGGGUUUU C UCAAUGAA	1191	UUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCA	16499
9162	GGUUUUUC C AAUGAAGA	1192	UCUUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACC	16500
9180	CACUGGCU U GGAAGAAA	1193	UUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGUG	16501

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9194	AAAGAACU C AGGAGGAG	1194	CUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUCUUU	16502
9207	GGAGGUGU C GAGGGCUU	1195	AAGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCUCC	16503
9215	CGAGGGCU U GGGCCUCC	1196	GGAGGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCCUCC	16504
9222	UUGGGCCU C CAAAAACU	1197	AGUUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCCCAA	16505
9235	AACUGGGU U ACAUCCUG	1198	CAGGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCAGUU	16506
9236	ACUGGGUU A CAUCCUGC	1199	GCAGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCCAGU	16507
9240	GGUUAU C CUGCGUGA	1200	UCACGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUAACC	16508
9252	CGUGAAGU U GGCACCCG	1201	CGGGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCACG	16509
9276	GGCAAGAU C UAUGCUGA	1202	UCAGCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUGCC	16510
9278	CAAGAUCU A UGCUGAUG	1203	CAUCAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUCUUG	16511
9312	ACCCGCAU C ACCAGAGC	1204	GCUCUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCGGGU	16512
9326	AGCUGACU U GGAAAUG	1205	CAUUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCAGCU	16513
9340	AUGAAGCU A AGGUGCUU	1206	AAGCACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUCAU	16514
9348	AAGGUGCU U GAGCUGCU	1207	AGCAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUU	16515
9357	GAGCUGCU U GAUGGGGA	1208	UCCCAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCUC	16516
9370	GGGAACAU C GGCUCUUC	1209	AAGACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCCCC	16517
9376	AUGGGCGU C UUGCCAGG	1210	CCUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCCGAU	16518
9378	CGCGUCU U GCCAGGGC	1211	GCCUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGCCG	16519
9390	AGGGCCAU C AUUGAGCU	1212	AGCUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCCCU	16520
9393	GCCAUCAU U GAGCUCAC	1213	GUGAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAUGGC	16521
9399	AUUGAGCU C ACCUAUCG	1214	CGAUAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUCAAU	16522
9404	GCUCACCU A UCGUCACA	1215	UGUGAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGAGC	16523
9406	UCACCUAU C GUCACAAA	1216	UUUGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGGUGA	16524
9409	CCUAUCGU C ACAAGUUU	1217	AACUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGAUAGG	16525
9417	CACAAAGU U GUGAAAGU	1218	ACUUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGUG	16526
9456	AGAACCUG C AUGGAUGU	1219	ACAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUUCU	16527
9465	AUGGAUGU U AUCUCCAG	1220	CUGGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCCAU	16528
9466	UGGAUGUU A UCUCACAGA	1221	UCUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAUCCA	16529
9468	GAUGUUAU C UCCAGAGA	1222	UCUCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACAUC	16530
9470	UGUUAUCU C CAGAGAAG	1223	CUUCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUACA	16531
9481	GAGAAGAU C AGAGGGGG	1224	CCCCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUCUC	16532
9501	GGACAAGU U GUCACCUA	1225	UAGGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUCC	16533
9504	CAAGUUGU C ACCUACGC	1226	GCGUAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACUUG	16534
9509	UGUCACCU A CGCCCUAA	1227	UUAGGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGACA	16535
9516	UACGCCCU A AACACUUU	1228	AAAGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGCGUA	16536
9523	UAAACACU U UCACCAAC	1229	GUUGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUUUA	16537
9524	AAACACUU U CACCAACC	1230	GGUUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGUUU	16538
9525	AACACUUU C ACCAACCU	1231	AGGUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGUGUU	16539
9540	CUGGCCGU C CAGCUGGU	1232	ACCAGTUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGCCAG	16540
9576	GGAGUGAU U GGCCACAG	1233	UCUGGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACUCC	16541
9600	GAGAAACU C ACAAAAGG	1234	CCUUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUCUC	16542
9624	CCCAAAGU C AGGACCUG	1235	CAGGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGGG	16543
9638	CUGGCUGU U UGAGAAUG	1236	CAUUCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCAG	16544
9639	UGGCUGUU U GAGAAUGG	1237	CCAUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAGCCA	16545
9660	GAAAGACU C AGCCGCAU	1238	AUGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUUUC	16546
9675	AUGGCUGU C AGUGGAGA	1239	UCUCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCAU	16547
9696	UGUGUGGU A AAGCCCCU	1240	AGGGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACACA	16548
9712	UGGACGAU C GCUUUGCC	1241	GGCAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUCCA	16549
9716	CGAUCGCU U UGCCACCU	1242	AGGUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGAUCG	16550
9717	GAUCGCUU U GCCACCUC	1243	GAGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCGAUC	16551
9725	UGCCACCU C GCUCCACU	1244	AGUGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGGCA	16552
9729	ACCUCGCU C CACUCCU	1245	AGGAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGAGGU	16553
9734	GCUCCACU U CCUCAAUG	1246	CAUUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGAGC	16554
9735	CUCCACUU C CUCAAUGC	1247	GCAUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGGAG	16555
9738	CACUUCUU C AAUGCUAU	1248	AUAGCAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAAGUG	16556
9745	UCAAUGCU A UGUCAAAG	1249	CUUUGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUUGA	16557
9749	UGCUAUGU C AAAGGUUC	1250	GAACUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUAGCA	16558
9756	UCAAGGU U CGCAAAGA	1251	UCUUUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUUGA	16559
9757	CAAAGGUU C GCAAAGAC	1252	GUCUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCUUUG	16560
9768	AAAGACAU C CAAGAGUG	1253	CACUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUU	16561
9785	GAAACCGU C AACUGGAU	1254	AUCCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUUUC	16562
9797	UGGAUGGU A UGAUUGGC	1255	GCCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUCCA	16563
9802	GGUAUGAU U GGCAGCAG	1256	CUGCUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUACC	16564

Table III

9813	CAGCAGGU U CCAUUUUG	1257	CAAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGUG	16565
9814	AGCAGGUU C CAUUUUGC	1258	GCAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACCGGCU	16566
9818	GGUUCCAU U UUGCUCAA	1259	UUGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACC	16567
9819	GUUCCAUU U UGCUAAA	1260	UUUGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAAC	16568
9820	UUCCAUU U GCUCAAAC	1261	GUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAA	16569
9824	AUUUUGCU C AAACCAUU	1262	AAUGGUTU CUGAUGAG	GCCGUUAGGC	CGAA AGCAAAAU	16570
9832	CAAAACAU U UCACUGAA	1263	UUCAGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	16571
9833	AAACCAU U CACUGAAU	1264	AUUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUUU	16572
9834	AAACCAUU C ACUGAAUU	1265	AAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUU	16573
9842	CACUGAAU U GAUCAUGA	1266	UCAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGUG	16574
9846	GAAUUGAU C AUGAAAGA	1267	UCUUCAD CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUUC	16575
9873	CUGGUGGU U CCAUGCCG	1268	CGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAG	16576
9874	UGGUGGUU C CAUGCCGA	1269	UCGCAUG CUGAUGAG	GCCGUUAGGC	CGAA AACCACCA	16577
9896	GGUUGAAU U GGUAGGCA	1270	UGCCUACC CUGAUGAG	GCCGUUAGGC	CGAA AUUCADCC	16578
9900	GAAUUGGU A GGCAGAGC	1271	GCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUC	16579
9910	GCAGAGCU C GCAUAUCU	1272	AGAUUAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCG	16580
9915	GCUCGCAU A UCUCAGG	1273	CCUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCGAGC	16581
9917	UCGCAUUA C UCCAGGGG	1274	CCCCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUADGCGA	16582
9919	GCAUAUCU C CAGGGGCC	1275	GGCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUAGC	16583
9939	UGGAACGU C CGCAGCAC	1276	GUGUCGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCA	16584
9952	ACACUGCU U GUCUGGCU	1277	AGCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGUG	16585
9955	CUGCUUGU C UGGCUAAG	1278	CUUAGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACAAGCAG	16586
9961	GUCUGGCU A AGUCUUAU	1279	AUAAGACU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGAC	16587
9965	GGCUAAGU C UUAUGCCC	1280	GGCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGCC	16588
9967	CUAAGUCU U AUGCCAG	1281	CUGGCAU CUGAUGAG	GCCGUUAGGC	CGAA AGACUAG	16589
9968	UAAGUCU A UGCCAGA	1282	UCUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGACUUA	16590
9987	UGGCGUCU U CUGUACUU	1283	AAGUACAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCA	16591
9988	GGCGGCUU C UGUACUUC	1284	GAAGUACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCC	16592
9992	GCUUCUGU A CUUCCACA	1285	UGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGC	16593
9995	UCUGUACU U CCACAGAA	1286	UUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUACAGA	16594
9996	CUGUACU C CACAGAA	1287	UCUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUACAG	16595
10017	CUGCGGCU C AUGGCCAA	1288	UUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAG	16596
10032	AACGCCAU U UGCUCGC	1289	GCAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGUU	16597
10033	ACGCCAUU U GCUCGCU	1290	AGCGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCGU	16598
10037	CAUUGGCU C CGCUGUCC	1291	GBACAGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUUG	16599
10044	UCCGCGU C CCUGGAA	1292	UUCACAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGA	16600
10054	CUGUGAAU U GGUCCCU	1293	AGGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACAG	16601
10059	AAUUGGCU C CCUACCG	1294	CCGUAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAU	16602
10063	GGGUCCU A CCGAAGA	1295	UCUCCCG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCCC	16603
10082	CAGUGGU C CAUCCAUG	1296	CAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUG	16604
10086	UGGUCCAU C CAUGCAGG	1297	CCUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	16605
10124	GGACAUGU U GGAUGUCU	1298	AGACCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUCC	16606
10131	UUGGAGGU C UGGAACCG	1299	CGGUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCAA	16607
10143	AACCGGUU U UGGAUAGA	1300	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACGGUU	16608
10144	ACCGUGUU U GGAUAGAG	1301	CUCUAUCC CUGAUGAG	GCCGUUAGGC	CGAA AACACGGU	16609
10149	GUUUGGAU A GAGGAGAA	1302	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAC	16610
10203	AGUGACGU C CCAUAUUC	1303	GAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGACU	16611
10208	CGUCCCAU A UUCAGGAA	1304	UUCUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGACG	16612
10210	UCCCAUUA U CAGGAAA	1305	UUUCCUG CUGAUGAG	GCCGUUAGGC	CGAA AUADUGGA	16613
10211	CCCAUAU C AGGAAAC	1306	GUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGGG	16614
10230	GAGGACAU C UGUUGUG	1307	CCACACA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCU	16615
10248	AGCCUGAU U GGCACAG	1308	CUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGGCU	16616
10284	GAAACAU C CAGGUGGC	1309	GCCACUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUTUC	16617
10294	AGGUGGCU A UCAACCAA	1310	UUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCACCU	16618
10296	GUUGCUAU C AACCAAGU	1311	ACUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGCCAC	16619
10305	AACCAAGU C AGAGCAU	1312	AUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGU	16620
10314	AGAGCAU C AUUGGAGA	1313	UCUCGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCU	16621
10317	GCAUAU C GGAUAGA	1314	UCAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGC	16622
10331	UGAGAAGU A UGUUGAUU	1315	AAUCCACA CUGAUGAG	GCCGUUAGGC	CGAA ACTUCUCA	16623
10339	AUGUGGAU U ACAUGAGU	1316	ACUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCCACAU	16624
10340	UGUGGAU A CAUGAGUU	1317	AACUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCACA	16625
10348	ACAUGAGU U CACUAAAG	1318	CUUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUGU	16626
10349	CAUGAGUU C ACUAAAGA	1319	UCUUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACUCAUG	16627

Table III

10353	AGUUCACU A AAGAGAU	1320	UAUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACU	16628
10361	AAAGAGAU A UGAAGACA	1321	UGUCUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCUUU	16629
10375	ACACAACU U UGGUUGAG	1322	CUCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGU	16630
10376	CACAACUU U GGUUGAGG	1323	CCUCAACC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGUG	16631
10380	ACUUUGGU U GAGGACAC	1324	GUGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAAGU	16632
10392	GACACAGU A CUGUAGAU	1325	AUCUACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUC	16633
10397	AGUACUGU A GAUAUUUA	1326	UAAUAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACU	16634
10401	CUGUAGAU A UUUAUCA	1327	UGAUUAAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUACAG	16635
10403	GUAGAUAU U UAAUCAAU	1328	AUUGAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUAC	16636
10404	UAGAUAUU U AAUCAAUU	1329	AAUUGAUU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUCUA	16637
10405	AGAUAUUU A AUCAAUUG	1330	CAAUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUUCU	16638
10408	UAUUUAUU C AAUUGUAA	1331	UUACAAUU CUGAUGAG	GCCGUUAGGC	CGAA AUUAAUUA	16639
10412	UAUUCAAU U GUAAAUAG	1332	CUAUUUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGAUUA	16640
10415	UCAAUUGU A AAUAGACA	1333	UGUCUAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGA	16641
10419	UUGUAAAU A GACAAUUA	1334	AUAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUUUACAA	16642
10426	UAGACAAU A UAAGUAUG	1335	CAUACUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCUA	16643
10428	GACAAUAU A AGUAUGCA	1336	UGCAUACU CUGAUGAG	GCCGUUAGGC	CGAA AUUAUUGC	16644
10432	AUAUAAGU A UGCAUAAA	1337	UUUAUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUUAUUA	16645
10438	GUUAGCAU A AAAGUGUA	1338	UACACUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAC	16646
10446	AAAAGUGU A GUUUUAUA	1339	UAUAAAAC CUGAUGAG	GCCGUUAGGC	CGAA ACACUUUU	16647
10449	AGUGUAGU U UUAUAGUA	1340	UACUAUAA CUGAUGAG	GCCGUUAGGC	CGAA ACUACACU	16648
10450	GUGUAGUU U UAUAGUAG	1341	CUACUAUA CUGAUGAG	GCCGUUAGGC	CGAA AACUACAC	16649
10451	UGUAGUUU U AUAGUAGU	1342	ACUACUAU CUGAUGAG	GCCGUUAGGC	CGAA AAACUACA	16650
10452	GUAGUUUU A UAGUAGUA	1343	UACUACUA CUGAUGAG	GCCGUUAGGC	CGAA AAACTUAC	16651
10454	AGUUUUUAU A GUAGUAUU	1344	AAUACUAC CUGAUGAG	GCCGUUAGGC	CGAA AUAAAUACU	16652
10457	UUUAUAGU A GUUUUAG	1345	CUAAAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUAUAAA	16653
10460	AUAGUAGU A UUUAGUGG	1346	CCACUAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUACUUA	16654
10462	AGUAGUAU U UAGUGGUG	1347	CACCACUA CUGAUGAG	GCCGUUAGGC	CGAA AUACUACU	16655
10463	GUAGUAUU U AGUGGUGU	1348	ACACCACU CUGAUGAG	GCCGUUAGGC	CGAA AAUACUAC	16656
10464	UAGUAUUU A GUGGUGUU	1349	AACACCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUACUA	16657
10472	AGUGGUGU U AGUGUAAA	1350	UUUACACU CUGAUGAG	GCCGUUAGGC	CGAA ACACCACU	16658
10473	GUGGUGUU A GUGUAAAU	1351	AUUUACAC CUGAUGAG	GCCGUUAGGC	CGAA AACACCAC	16659
10478	GUUAGUGU A AAUAGUUA	1352	UAACUAUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUAAC	16660
10482	GUGUAAAU A GUUAAGAA	1353	UUCUUAAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUACAC	16661
10485	UAAAUAGU U AAGAAAUU	1354	AUUUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUUUA	16662
10486	AAAUAGUU A AGAAAUUU	1355	AAUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA AACUAUUU	16663
10494	AAGAAAUU U UUGAGGAG	1356	CUCCUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCUU	16664
10495	AGAAAUUU U UGAGGAGA	1357	UCUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUUU	16665
10496	GAAAUUUU U GAGGAGAA	1358	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUUC	16666
10508	GAGAAAGU C AGGCCGGG	1359	CCCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCCU	16667
10521	CGGGAAGU U CCGCCAC	1360	GUGGCGGG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGCC	16668
10522	GGGAAGUU C CCGCCACC	1361	GGUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA AACTUCCC	16669
10537	CCGGAAGU U GAGUAGAC	1362	GUCUACUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGGG	16670
10542	AGUUGAGU A GACGGUGC	1363	GCACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAACU	16671
10562	CUGCGACU C AACCACAG	1364	CUGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGCAG	16672
10602	GAAGUGAU C CAUGUAAG	1365	CUUACAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUC	16673
10608	AUCCAUGU A AGCCCUCA	1366	UGAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGAU	16674
10615	UAAGCCCU C AGAACCGU	1367	ACGGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUUA	16675
10624	AGAACCGU C UCGGAAGG	1368	CCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUCU	16676
10626	AACCGUCU C GGAAGGAG	1369	CUCUUCC CUGAUGAG	GCCGUUAGGC	CGAA AGACGGUU	16677
10647	CCACAUGU U GUAACUUC	1370	GAAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUGG	16678
10650	CAUGUUGU A ACUUCAAA	1371	UUUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAUG	16679
10654	UUGUAACU U CAAAGCCC	1372	GGGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAACA	16680
10655	UGUAACUU C AAAGCCCA	1373	UGGGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAAC	16681
10668	CCCAUUGU C AGACCACG	1374	CGUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGGG	16682
10679	ACCACGCU A CGGCGUGC	1375	GCACGCCG CUGAUGAG	GCCGUUAGGC	CGAA AGCGUGGU	16683
10689	GGCGUGCU A CUCUGCGG	1376	COGCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCACGCC	16684
10692	GUGCUACT C UGCGGAGA	1377	UCUCCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGCAC	16685
10708	AGUGCAGU C UGCGAUG	1378	CUAUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCACU	16686
10715	UCUGCGAU A GUGCCCCA	1379	UGGGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCGCAGA	16687
10736	GACUGGGU U AACAAAGG	1380	CCUUUGUU CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGUC	16688
10737	ACUGGGUU A ACAAGGCC	1381	GCCUUGUU CUGAUGAG	GCCGUUAGGC	CGAA AACCCAGU	16689
10769	GCGGCCCU A GCCCGGU	1382	ACCGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCGC	16690

Table III

10778	GCCCCGGU A AUGGUGUU	1383	AACACCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCGGGGC	16691
10786	AAUGGUGU U AACCAGGG	1384	CCCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA ACACCAU	16692
10787	AUGGUGUU A ACCAGGGC	1385	GCCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AACACCAU	16693
10805	AAAGGACU A GAGGUUAG	1386	CUAACCUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUUU	16694
10811	CUAGAGGU U AGAGGAGA	1387	UCUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUAG	16695
10812	UAGAGGUU A GAGGAGAC	1388	GUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCUA	16696
10829	CCCGCGGU U UAAAGUGC	1389	GCACUUUA CUGAUGAG	GCCGUUAGGC	CGAA ACCGCGGG	16697
10830	CCGCGGUU U AAAGUGCA	1390	UGCACUUU CUGAUGAG	GCCGUUAGGC	CGAA AACCGCGG	16698
10831	CGCGGUUU A AAGUGCAC	1391	GUGCACUU CUGAUGAG	GCCGUUAGGC	CGAA AAACCGCG	16699
10862	GAAGCUGU A GGUCAGGG	1392	CCCUGACC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUUC	16700
10866	CUGUAGGU C AGGGGAAG	1393	CUUCCCUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUACAG	16701
10879	GAAGGACU A GAGGUUAG	1394	CUAACCUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUUC	16702
10885	CUAGAGGU U AGUGGAGA	1395	UCUCCACU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUAG	16703
10886	UAGAGGUU A GUGGAGAC	1396	GUCUCCAC CUGAUGAG	GCCGUUAGGC	CGAA AACUCUA	16704
10928	AACAGCAU A UUGACACC	1397	GGUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGUU	16705
10930	CAGCAUUA U GACACCUG	1398	CAGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUAUGCUG	16706
10943	CCUGGGAU A GACUAGGA	1399	UCCUAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAGG	16707
10948	GAUAGACU A GGAGAUUC	1400	AGAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUAUC	16708
10955	UAGGAGAU C UUCUGCUC	1401	GAGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCUA	16709
10957	GGAGAUUC U CUGCUCUG	1402	CAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCUCC	16710
10958	GAGAUUCU C UGCUCUGC	1403	GCAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCUC	16711
10963	CUUCUGCU C UGCACAAC	1404	GUUGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAG	16712

Table IV

Table IV: WNV Inozyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
11	UAGUUCGC C UGUGUGAG	1405	CUCACACA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICGAACUA	16713
12	AGUUCGCC U GUGUGAGC	1406	GCUCACAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICGAACU	16714
21	GUGUGAGC U GACAAACU	1407	AGUUUGUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUCACAC	16715
25	GAGCUGAC A AACUUAGU	1408	ACUAAGUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUCAGCUC	16716
29	UGACAAAC U UAGUAGUG	1409	CACUACUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUUAUCC	16717
53	GGAUUAAAC A ACAAUUA	1410	UUAUUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUUAUCC	16718
56	UUAACAAC A AUUAACAC	1411	GUGUUAU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUGUUA	16719
63	CAAUUAAAC A CAGUGCGA	1412	UCGCACUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUUAUUG	16720
65	AUUAACAC A GUGCGAGC	1413	GCUCGCAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUGUUAU	16721
74	GUGCGAGC U GUUUCUUA	1414	UAAGAAAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUCGCAC	16722
80	GCUGUUUC U UAGCACGA	1415	UCGUGCUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAAACAGC	16723
85	UUCUUAGC A CGAAGAU	1416	GAUCUUCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUAAGAA	16724
94	CGAAGAU C CGAUGUCU	1417	AGACAUCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAUUUCG	16725
102	UCGAUGUC U AAGAAACC	1418	GGUUUCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IACAUCCA	16726
110	UAAGAAAC C AGGAGGGC	1419	GCCCUCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUUCUUA	16727
111	AAGAAACC A GGAGGGCC	1420	GGCCUCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGUUUCU	16728
119	AGGAGGGC C CGCAAGA	1421	UCUUGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCUCCU	16729
120	GGAGGGCC C GGCAAGAG	1422	CUCUUGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGCCUCC	16730
124	GGCCCGC A AGAGCCGG	1423	CCGGCUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCGGGC	16731
130	GCAAGAGC C GGGCUGUC	1424	GACAGCCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUCUUGC	16732
135	AGCCGGGC U GUCAUAU	1425	AUAUUGAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCGCGU	16733
139	GGGCUGUC A AUUAGCUA	1426	UAGCAUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IACAGCCC	16734
146	CAAUUAGC U AAAACGCG	1427	CGCGUUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICAUAUUG	16735
161	CGAAUAGC C CGCGUGU	1428	ACACGCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICAUCCG	16736
162	GGAAUGCC C CGCGUGU	1429	AACACGCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGCAUCC	16737
163	GAUUGCCC C CGUGUUG	1430	CAACACG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGGCAUUC	16738
174	GUGUUGUC C UUGAUUGG	1431	CCAAUCAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IACAAAC	16739
175	UGUUGUCC U UGAUUGGA	1432	UCCAAUCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGACACA	16740
185	GAUUGGAC U GAAGAGGG	1433	CCCUCUUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUCCAUC	16741
195	AAGAGGGC U AUGUUGAG	1434	CUCAACU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCUCUU	16742
205	UGUUGAGC C UGAUCGAC	1435	GUCGAUCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUCAACA	16743
206	GUUGAGCC U GAUCGACG	1436	CGUCGAUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGCUCAAC	16744
217	UCGACGGC A AGGGCCA	1437	UGGCCCCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCGUCG	16745
224	CAAGGGGC C AAUACGAU	1438	UGGUAUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCCTUG	16746
225	AAGGGGCC A AUACGAU	1439	AAUCGAU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICCCTUU	16747
243	GUGUUGGC U CUCUUGGC	1440	GCCAAGAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGCAACAC	16748
245	GUUGGCUC U CUUGCGU	1441	ACGCCAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAGCCAAC	16749
247	UGGCUCUC U UGGCGUUC	1442	GAACGCCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAGAGCCA	16750
256	UGGCGUUC U UCAGGUUC	1443	GAACCUGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAAGCCA	16751
259	CGUUCUUC A GUUCACA	1444	UGUGAAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAAGAACG	16752
265	UCAGGUUC A CAGCAAU	1445	AAUUGCUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAACCUGA	16753
267	AGGUUCAC A GCAAUUGC	1446	GCAAUUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUGAACCU	16754
270	UUCACAGC A AUUGCUC	1447	GGAGCAAU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUGUGAA	16755
276	GCAAUUGC U CCGACCG	1448	CGGUCGG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICAAUUGC	16756
278	AAUUGCUC C GACCCGAG	1449	CUCGGGUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAGCAAU	16757
282	GCUCCGAC C CGAGCAGU	1450	ACUGCUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUCGGAGC	16758
283	CUCCGACC C GAGCAGUG	1451	CACUGCUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGUCGGAG	16759
288	ACCCGAGC A GUGCUGGA	1452	UCCAGCAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICUCGGGU	16760
293	AGCAGUGC U GGAUCGAU	1453	AUCGAUCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ICACUGCU	16761
316	GUGUGAAC A ACAAACA	1454	UGUUUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUACAC	16762
320	GAACAAAC A AACAGCGA	1455	UCGCUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUGUUC	16763
324	AAACAAAC A GCGAUGAA	1456	UUCAUCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUUGUU	16764
335	GAUGAAAC A CCUUCUGA	1457	UCAGAAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUUAUC	16765
337	UGAAACAC C UUCUGAGU	1458	ACUCAGAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUGUUUA	16766
338	GAAACACC U UCUGAGUU	1459	AACUCAGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IGUGUUC	16767
341	ACACCUUC U GAGUUUA	1460	UAAAACUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA IAAGGUGU	16768
359	GAAGGAAC U AGGGACCU	1461	AGGUCCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUUCCUUC	16769
366	CUAGGGAC C UUGACCAG	1462	CUGGUCAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA IUCCUAG	16770

Table IV

367	UAGGGACC U UGACCAGU	1463	ACUGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCCUA	16771
372	ACCUUGAC C AGUGCUAU	1464	AUAGCACU CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGGU	16772
373	CCUUGACC A GUGCUAUC	1465	GAUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAGG	16773
378	ACCAGUGC U AUCAAUCG	1466	CGAUUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICACUGGU	16774
382	GUGCUAUC A AUCGGCGG	1467	CCGCCGAU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCAC	16775
394	GGCGGAGC U CAAACAA	1468	UUGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCCGCC	16776
396	CGGAGCUC A AAACAAA	1469	UUUUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCCG	16777
401	CUCAAAAC A AAAGAAA	1470	UUUUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGAG	16778
423	GGAAAGAC C GGAAUUGC	1471	GCAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUUCC	16779
432	GGAAUUGC A GUCAUGAU	1472	AUCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUCC	16780
436	UUGCAGUC A UGAUUGGC	1473	GCCAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAA	16781
445	UGAUUGGC C UGAUCGCC	1474	GGCGAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCA	16782
446	GAUUGGCC U GAUCGCCA	1475	UGGCGAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAUC	16783
453	CUGAUCGC C AGCGUAGG	1476	CCUACGCU CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCAG	16784
454	UGAUCGCC A GCGUAGGA	1477	UCCUACGC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCUA	16785
465	GUAGGAGC A GUUACCCU	1478	AGGGUAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCCUAC	16786
471	GCAGUUA C CUCUCUAA	1479	UUAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUAACUGC	16787
472	CAGUUA C UCUCUAA	1480	GUUAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUAACUG	16788
473	AGUUA C CUCUAA	1481	AGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGGUAAUC	16789
475	UUACCCUC U CUAACUUC	1482	GAAGUAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUAUA	16790
477	ACCCUCUC U AACUCCA	1483	UGGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGGU	16791
481	UCUCUAA C UCCAAGGG	1484	CCCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUAGAGA	16792
484	CUAACUUC C AAGGGAAG	1485	CUUCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUAG	16793
485	UAACUUC C AGGGAAGG	1486	CCUCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUUA	16794
513	GUAAUUC U ACUGACGU	1487	ACGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUC	16795
516	AAUGCUAC U GACGUCAC	1488	GUGACGUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGCAUU	16796
523	CUGACGUC A CAGAUGUC	1489	GACAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IACGUCAG	16797
525	GACGUCAC A GAUGUCAU	1490	AUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IUGACGUC	16798
532	CAGAUGUC A UCACGAU	1491	AAUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCUG	16799
535	AUGUCAUC A CGAUUCCA	1492	UGGAAUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAU	16800
542	CACGAUUC C AACAGCUG	1493	CAGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUCGUG	16801
543	ACGAUUC C ACAGCUGC	1494	GCAGCUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUCCGU	16802
546	AUUCACAC A GCUGCUGG	1495	CCAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAAU	16803
549	CCAACAGC U GCUGGAAA	1496	UUUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGG	16804
552	ACAGCUGC U GGAAAGAA	1497	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICACGUGU	16805
562	GAAAGAAC C UAUGCAU	1498	AAUGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUUC	16806
563	AAAGAACC U AUGCAUUG	1499	CAUUGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUUU	16807
568	ACCUAUGC A UUGUCAGA	1500	UCUGACAA CUGAUGAG	GCCGUUAGGC	CGAA ICAUAGGU	16808
574	GCAUUGUC A GAGCAUG	1501	CAUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IACAAUGC	16809
579	GUCAGAGC A AUGGAUGU	1502	ACAUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGAC	16810
595	UGGGAUAC A UGUGCGAU	1503	AUCGCACA CUGAUGAG	GCCGUUAGGC	CGAA IUAUCCCA	16811
609	GAUGAUAC U AUCACUUA	1504	UAAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUAUCAUC	16812
613	AUACUAUC A CUUAUGAA	1505	UUCAUAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUUA	16813
615	ACUAUCAC U UAUGAAUG	1506	CAUUCUA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUAGU	16814
625	AUGAAUGC C CAGUGCUG	1507	CAGCACUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUUCAU	16815
626	UGAAUGCC C AGUGCUGU	1508	ACAGCACU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUCA	16816
627	GAAUGCCC A GUGCUGUC	1509	GACAGCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUC	16817
632	CCCAGUGC U GUCGGCUG	1510	CAGCCGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGGG	16818
639	CUGUCGCG U GGUAUGA	1511	UCAUUAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGACAG	16819
650	UAAUGAUC C AGAAGACA	1512	UGUCUUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUUA	16820
651	AAUGAUCC A GAAGACAU	1513	AUGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAU	16821
658	CAGAAGAC A UCGACUGU	1514	ACAGUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUG	16822
664	ACAUCGAC U GUUGGUGC	1515	GCACCAAC CUGAUGAG	GCCGUUAGGC	CGAA IUCGAUGU	16823
673	GUUGGUGC A CAAAGUCA	1516	UGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAC	16824
675	UGGUGCAC A AAGUCAGC	1517	GCUGACUU CUGAUGAG	GCCGUUAGGC	CGAA IUGACCA	16825
681	ACAAAGUC A GCAGUCTA	1518	UAGACUGC CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGU	16826
684	AAGUCAGC A GUCUACGU	1519	ACGUAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGACUU	16827
688	CAGCAGUC U ACGUCAGG	1520	CCUGACGU CUGAUGAG	GCCGUUAGGC	CGAA IACUGCTG	16828
694	UCUACGUC A GGUUUGGA	1521	UCCAUACC CUGAUGAG	GCCGUUAGGC	CGAA IACGUGA	16829
709	GAAGAUGC A CCAAGACA	1522	UGUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUUC	16830
711	AGAUGCAC C AAGACACG	1523	CGUGUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAUCU	16831
712	GAUGCACC A AGACACGC	1524	GCGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCAUC	16832

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717	ACCAAGAC A CGCCACUC	1525	GAGUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUGGU	16833
721	AGACACGC C ACUCAAGA	1526	UCUUGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUGUCU	16834
722	GACACGCC A CUCAAGAC	1527	GUCUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUGUC	16835
724	CACGCCAC U CAAGACGC	1528	GCGUCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCGUG	16836
726	CGCCACUC A AGACGCAG	1529	CUGCGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGCG	16837
733	CAAGACGC A GUCGGAGG	1530	CCUCCGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCUUG	16838
744	CGGAGGUC A CUGACAGU	1531	ACUGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUCCG	16839
746	GAGGUCAC U GACAGUGC	1532	GCACUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACCUC	16840
750	UCACUGAC A GUGCAGAC	1533	GUCUGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGUGA	16841
755	GACAGUGC A GACACACG	1534	CGUGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUGUC	16842
759	GUGCAGAC A CACGGAGA	1535	UCUCCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGCAC	16843
761	GCAGACAC A CGGAGAAA	1536	UUUCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUGC	16844
772	GAGAAAGC A CUCUAGCG	1537	CGCUAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUCUC	16845
774	GAAAGCAC U CUAGCGAA	1538	UUCGCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUUUC	16846
776	AAGCACUC U AGCGAACA	1539	UGUUCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGCUU	16847
784	UAGCGAAC A AGAAGGGG	1540	CCCCUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCGCUA	16848
795	AAGGGGGC U UGGAUGGA	1541	UCCAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCCCUU	16849
805	GGAUGGAC A GCACCAAG	1542	CUUGGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUCU	16850
808	UGGACAGC A CCAAGGCC	1543	GGCCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUCCA	16851
810	GACAGCAC C AAGGCCAC	1544	GUGGCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGUC	16852
811	ACAGCACC A AGGCCACA	1545	UGUGGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGUC	16853
816	ACCAAGGC C ACAAGGUA	1546	UACCUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUGGU	16854
817	CCAAGGCC A CAAGGUAU	1547	AUACCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUUGG	16855
819	AAGGCCAC A AGGUUUU	1548	AAAUACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCUU	16856
837	GUAAAAAC A GAUUAUG	1549	CAUGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUAC	16857
843	ACAGAAUC A UGGAUCUU	1550	AAGAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUGU	16858
850	CAUGGAUC U UGAGGAAC	1551	GUUCCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCAUG	16859
859	UGAGGAAC C CUGGAUUA	1552	AUAUCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCUCA	16860
860	GAGGAACC C UGGAUUAU	1553	CAUAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCCUC	16861
861	AGGAACCC U GGAUUAUG	1554	GCAUAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUCCCU	16862
870	GGAUUAUG C CUGGUGGC	1555	GCCACCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUAUCC	16863
871	GAUAUGCC C UGGUGGCA	1556	UGCCACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAUUA	16864
872	AUAUGCCC U GGUGGCAG	1557	CUGCCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAUUA	16865
879	CUGGUGGC A GCCGUCAU	1558	AUGACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACCAG	16866
882	GUGGCAGC C GUCAUUGG	1559	CCAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCCAC	16867
886	CAGCCGUC A UUGGUUGG	1560	CCAACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGCGUG	16868
899	UUGGAUGC U UGGAGCA	1561	UGCUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCCAA	16869
907	UUGGAGC A ACACCAUG	1562	CAUGGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCCAA	16870
910	GGAGCAAC A CCAUGCAG	1563	CUGCAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCUCC	16871
912	AGCAACAC C AUGCAGAG	1564	CUCUGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUGCU	16872
913	GCAACACC A UGCAGAGA	1565	UCUCUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUUGC	16873
917	CACCAUGC A GAGAGUUG	1566	CAACUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGGUG	16874
938	UGUCGUGC U AUUGCUUU	1567	AAAGCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGACA	16875
944	GCUAUUGC U UUUGGUGG	1568	CCACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUAGC	16876
954	UUGGUGGC C CCAGCUUA	1569	UAAGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACCAA	16877
955	UGGUGGCC C CAGCUUAC	1570	GUAAAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCACCA	16878
956	GGUGGCC C AGCUUACA	1571	UGUAAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCACC	16879
957	GUGGCCCC A GCUUACAG	1572	CUGUAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCACC	16880
960	GCCCCAGC U UACAGCUU	1573	AAGCUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGGGC	16881
964	CAGCUUAC A GCUUCAAC	1574	GUUGAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGCUG	16882
967	CUUACAGC U UCAACUGC	1575	GCAGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUAAG	16883
970	ACAGCUUC A ACUGCCUU	1576	AAGGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCUGU	16884
973	GCUUCAAC U GCCUUGGA	1577	UCCAAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAAGC	16885
976	UCAACUGC C UUGGAAUG	1578	CAUUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUGA	16886
977	CAACUGCC U UGGAUUGA	1579	UCAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUG	16887
988	GAUUGAGC A ACAGAGAC	1580	GUCUCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUUC	16888
991	UGAGCAAC A GAGACUUC	1581	GAAGUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCUCA	16889
997	ACAGAGAC U UCUUGGAA	1582	UCCAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCUGU	16890
1000	GAGACUUC U UGGAAGGA	1583	UCCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUCUC	16891
1014	GGAGUGUC U GGAGCAAC	1584	GUUGCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACUCC	16892
1020	UCUGGAGC A ACAUGGGU	1585	ACCCAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAGA	16893
1023	GGAGCAAC A UGGGUGGA	1586	UCCACCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCUCC	16894

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1040	UUUGGUUC U CGAAGGCG	1587	CGCCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAACCAA	16895
1051	AAGGCGAC A GCUGCGUG	1588	CACGCGAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGCCU	16896
1054	GCGACAGC U GCGUGACU	1589	AGUCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCG	16897
1062	UGCUGAC U AUC AUGUC	1590	GACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCACGCA	16898
1066	UGACUAUC A UGUCUAAG	1591	CUUAGACA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUCA	16899
1071	AUCAUGUC U AAGGACAA	1592	UUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAU	16900
1078	CUAAGGAC A AGCCUACC	1593	GGUAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAG	16901
1082	GGACAAGC C UACCAUCG	1594	CGAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IACUUGCC	16902
1083	GACAAGCC U ACCAUCGA	1595	UCGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGUC	16903
1086	AAGCCUAC C AUCGAUGU	1596	ACAUCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUAGGCUU	16904
1087	AGCCUACC A UCGAUGUG	1597	CACAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IGUAGGCU	16905
1120	AGGCGGUC A ACCUGGCA	1598	UGCCAGGU CUGAUGAG	GCCGUUAGGC	CGAA IACCGCCU	16906
1123	CGGUAAC C UGGCAGAG	1599	CUCUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGACCG	16907
1124	GGUCAACC U GGCAGAGG	1600	CCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGACC	16908
1128	AACCUUGC A GAGGUCCG	1601	CGAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IACCUUG	16909
1135	CAGAGGUC C GCAGUUAU	1602	AUAACUGC CUGAUGAG	GCCGUUAGGC	CGAA IACCUUG	16910
1138	AGGUCCGC A GUUAUUGC	1603	GCAAUAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGACCU	16911
1147	GUUAUUGC U AUUUGGCU	1604	AGCCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUAAC	16912
1155	UAUUGGC U ACCGUCAG	1605	CUGACGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUA	16913
1158	UUGGCUAC C GUCAGCGA	1606	UCGUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUAGCCAA	16914
1162	CUACCGUC A GCGAUCUC	1607	GAGAUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACGGUAG	16915
1169	CAGCGAUC U CUCCACCA	1608	UGGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGUG	16916
1171	GCGAUCUC U CCACCAA	1609	UUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCCG	16917
1173	GAUCUCUC C ACCAAAGC	1610	GCUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAU	16918
1174	AUCUCUC A CCAAAGCU	1611	AGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAU	16919
1176	CUCUCCAC C AAAGCUGC	1612	GCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGAG	16920
1177	UCUCCACC A AAGCUGCG	1613	CGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAGA	16921
1182	ACCAAAGC U GCGUGCCC	1614	GGGCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGU	16922
1189	CUGCGUGC C CGACCAUG	1615	CAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACGCAG	16923
1190	UGCGUGCC C GACCAUGG	1616	CCAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCACGA	16924
1194	UGCCCAGC C AUGGGAGA	1617	UCUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCA	16925
1195	GCCCAGC A UGGGAGAA	1618	UUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGC	16926
1206	GGAGAAGC U CACAAUGA	1619	UCAUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCUC	16927
1208	AGAAGCUC A CAAUGACA	1620	UGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUCU	16928
1210	AAGCUCAC A AUGACAAA	1621	UUUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCUU	16929
1216	ACAAUGAC A AACGUCU	1622	AGCACGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGU	16930
1224	AAACGUGC U GACCCAGC	1623	GCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACGUU	16931
1228	GUGCUGAC C CAGCUUUU	1624	AAAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGCA	16932
1229	UGCUGACC C AGCUUUUG	1625	CAAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGCA	16933
1230	GCUGACCC A GCUUUUGU	1626	ACAAAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAGC	16934
1233	GACCCAGC U UUUGUGUG	1627	CACACAAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGUC	16935
1243	UUGUGUC A GACAAGGA	1628	UCCUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACACAA	16936
1247	GUCAGAC A AGGAGUGG	1629	CCACUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCAC	16937
1261	UGGUGGAC A GGGGUGG	1630	CCAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCACCA	16938
1267	ACAGGGGC U GGGGCAAC	1631	GUUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUGU	16939
1273	GCUGGGGC A ACGGCGUC	1632	GCAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGC	16940
1279	GCAACGGC U GCGGAUUA	1633	UAAUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUGC	16941
1294	UAUUGGC A AAGGAAGC	1634	GCUUCCUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUA	16942
1303	AAGGAAGC A UUGACACA	1635	UGUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCUU	16943
1309	GCAUUGAC A AUGCGCC	1636	GGCGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGC	16944
1311	AUUGACAC A UGCGCAA	1637	UUGGCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAU	16945
1317	ACAUGCGC C AAUUGGC	1638	GCAAAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUGU	16946
1318	CAUGCGCC A AAUUGCC	1639	GGCAAAUU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUG	16947
1326	AAUUGGC C UGCUCUAC	1640	GUAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAAUU	16948
1327	AAUUGGC U GCUCUACC	1641	GGUAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAU	16949
1330	UUGCCUGC U CUACCAAG	1642	CUUGGUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGCAA	16950
1332	GCCUGCUC U ACCAAGGC	1643	GCCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGGC	16951
1335	UGCUCUAC C AAGGCAAU	1644	AUUGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGAGCA	16952
1336	GCUCUACC A AGGCAAU	1645	UAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGC	16953
1341	ACCAAGGC A AUAGGAAG	1646	CUUCCUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGU	16954
1353	GGAAGAAC C AUCUUGAA	1647	UUCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCC	16955
1354	GAAGAACC A UCUUGAAA	1648	UUUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUUC	16956

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1357	GAACCAUC U UGAAAGAG	1649	CUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUUC	16957
1372	AGAAUAUC A AGUACGAA	1650	UUCGUACU CUGAUGAG	GCCGUUAGGC	CGAA	IAUAUUCU	16958
1386	GAAGUGGC C AUUUUUGU	1651	ACAAAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUUC	16959
1387	AAGUGGCC A UUUUUGUC	1652	GACAAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACUU	16960
1396	UUUUUGUC C AUGGACCA	1653	UGGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA	IACAAAA	16961
1397	UUUUUGUC A UGGACCAA	1654	UUGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGACAAAA	16962
1403	CCAUGGAC C AACUACUG	1655	CAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUGG	16963
1404	CAUGGACC A ACTUACUGU	1656	ACAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUG	16964
1407	GGACCAAC U ACUGUGGA	1657	UCCACAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUCC	16965
1410	CCAACUAC U GUGGAGUC	1658	GACUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUUGG	16966
1421	GGAGUCGC A CGGAAACU	1659	AGUUUCCG CUGAUGAG	GCCGUUAGGC	CGAA	ICGACUCC	16967
1429	ACGGAAAC U ACUCCACA	1660	UGUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUUCCGU	16968
1432	GAAACUAC U CCACACAG	1661	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUUUC	16969
1434	AACUACUC C ACACAGGU	1662	ACCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUAGUU	16970
1435	ACTUACUC A CACAGGUU	1663	AACCUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUAGU	16971
1437	UACUCCAC A CAGGUUGG	1664	CCAACCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGUA	16972
1439	CUCACAC A GGUUGGAG	1665	CUCCAACC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGGAG	16973
1449	GUUGGAGC C ACUCAGGC	1666	GCCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCAAC	16974
1450	UUGGAGCC A CUCAGGCA	1667	UGCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCCAA	16975
1452	GGAGCCAC U CAGGCAGG	1668	CCUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCUCC	16976
1454	AGCCACUC A GCGAGGGA	1669	UCCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGCU	16977
1458	ACUCAGGC A GGGAGAUU	1670	AAUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICCGAGU	16978
1468	GGAGAUUC A GCAUCACU	1671	AGUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCUCC	16979
1471	GAUUCAGC A UCACUCCU	1672	AGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAAUC	16980
1474	UCAGCAUC A CUCCUGCG	1673	CGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCUGA	16981
1476	AGCAUCAC U CCUGCGGC	1674	GCCGCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGCU	16982
1478	CAUCACUC C UGCGGCGC	1675	GCGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAUG	16983
1479	AUCACUCC U GCGGCGCC	1676	GGCGCCGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGAU	16984
1487	UGCGGCGC C UUCAUACA	1677	UGUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGCA	16985
1488	GCGGCGCC U UCAUACAC	1678	GUGUAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCGCCGC	16986
1491	GCGCCUUC A UACACACU	1679	AGUGUGUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGCGC	16987
1495	CUUCAUAC A CACUAAAG	1680	CUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAAG	16988
1497	UCAUACAC A CUAAAGCU	1681	AGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUAUGA	16989
1499	AUACACAC U AAAGCUUG	1682	CAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGUAU	16990
1505	ACUAAAGC U UGGAGAAU	1683	AUUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUAGU	16991
1527	GAGGUGAC A UGGACUG	1684	CAGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCUC	16992
1534	CAGUGGAC U GUGAACCA	1685	UGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCACUG	16993
1541	CUGUGAAC C ACGGUCAG	1686	CUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUCACAG	16994
1542	UGUGAAC C ACGGUCAG	1687	CCUGACCG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCACA	16995
1548	CCACGGUC A GGGAUUGA	1688	UCAUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IACCGUGG	16996
1558	GGAUUGAC A CCAUGCA	1689	UGCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCC	16997
1560	AUUGACAC C AAUGCAUA	1690	UAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAU	16998
1561	UUGACACC A AUGCAUAC	1691	GUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUCA	16999
1566	ACCAUUGC A UACUACGU	1692	ACGUAGUA CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGU	17000
1570	AUGCAUAC U ACGUGAUG	1693	CAUCACGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGCAU	17001
1581	GUGAUGAC U GUUGGAAC	1694	GUUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCAC	17002
1590	GUUGGAAC A AAGACGUU	1695	AACGUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAAC	17003
1600	AGACGUUC U UGGUCCAU	1696	AUGGACCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUCU	17004
1606	UCUUGGUC C AUCGUGAG	1697	CUCACGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACCAAGA	17005
1607	CUUGGUCC A UCGUGAGU	1698	AGUCACGA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCAAG	17006
1621	AGUGGUUC A UGGACCUC	1699	GAGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACCACU	17007
1627	UCAUGGAC C UCAACCUC	1700	GAGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUGA	17008
1628	CAUGGACC U CAACCUC	1701	GGAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUG	17009
1630	UGGACCUC A ACCUCCU	1702	AGGGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUCCA	17010
1633	ACCUCAAC C UCCUUGG	1703	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAGGU	17011
1634	CCUCAACC U CCUUGGA	1704	UCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGAGG	17012
1636	UCAACCUC C CUUGGAGC	1705	GCUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUUGA	17013
1637	CAACCUC C UUGGAGCA	1706	UGCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGUUG	17014
1638	AACCUC C UUGGAGCAG	1707	CUGCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGGUU	17015
1645	CUUGGAGC A GUGCUGGA	1708	UCCAGCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCAAG	17016
1650	AGCAGUGC U GGAAGUAC	1709	GUACUCC CUGAUGAG	GCCGUUAGGC	CGAA	ICACUGCU	17017
1659	GGAAGUAC U GUGUGGAG	1710	CUCCACAC CUGAUGAG	GCCGUUAGGC	CGAA	IUACUCC	17018

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1672	GGAGGAAC A GAGAGACG	1711	CGUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCC	17019
1700	UGAGGAAC C ACACGCCA	1712	UGGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCA	17020
1701	GAGGAACC A CACGCCAC	1713	GUGGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCCUC	17021
1703	GGAACCAC A CGCCACGA	1714	UCGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCC	17022
1707	CCACACGC C ACGAAGCA	1715	UGCUCVCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUGG	17023
1708	CACACGCC A CGAAGCAG	1716	CUGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUG	17024
1715	CAGGAAGC A GUCUGUGA	1717	UCACAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGUG	17025
1719	AAGCAGUC U GUGAUAGC	1718	GCUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGCUU	17026
1728	GUGAUAGC A UUGGGCUC	1719	GAGCCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUAUCAC	17027
1735	CAUUGGGC U CACAAGAG	1720	CUCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUG	17028
1737	UUGGGCUC A CAAGAGGG	1721	CCUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCAA	17029
1739	GGGCUCAC A AGAGGGAG	1722	CUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCC	17030
1749	GAGGGAGC U CUGCAUCA	1723	UGAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCCUC	17031
1751	GGGAGCUC U GCAUCAAG	1724	CUUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCCC	17032
1754	AGCUCUGC A UCAAGCUU	1725	AAGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCU	17033
1757	UCUGCAUC A AGCUUUGG	1726	CCAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGA	17034
1761	CAUCAAGC U UUGGCUGG	1727	CCAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGAUG	17035
1767	GCUUUGGC U GGAGCCAU	1728	AUGGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAAGC	17036
1773	GCUGGAGC C AUUCCUGU	1729	ACAGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGCAG	17037
1774	CUGGAGCC A UUCCUGUG	1730	CACAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAG	17038
1778	AGCCAUUC C UGUGGAU	1731	AUCCACA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGCU	17039
1779	GCCAUUC U GUGGAU	1732	AAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17040
1791	GAAUUUC A AGCAACAC	1733	GUGUUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUUC	17041
1795	UUUCAAGC A ACACUGUC	1734	GACAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAAA	17042
1798	CAAGCAAC A CUGCAAG	1735	CUUGACAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUUG	17043
1800	AGCAACAC U GUCAAGUU	1736	AACUUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGCU	17044
1804	ACACUGUC A AGUUGACG	1737	CGUCAACU CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGU	17045
1820	GUCGGGUC A UUUGAAGU	1738	ACUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IACCCGAC	17046
1853	AAAUUGC A GUUGAAGG	1739	CCUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUUU	17047
1866	AAGGGAAC A ACCUAUGG	1740	CCAUAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCUU	17048
1869	GGAACAAC C UAUGGCGU	1741	ACGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUC	17049
1870	GAACAACC U AUGGCGUC	1742	GACGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUUC	17050
1879	AUGGCGUC U GUCAAAAG	1743	CUUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA IACGCCAU	17051
1884	GUCUGUUC A AAGGCUU	1744	AAAGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IACAGAC	17052
1890	UCAAAGGC U UUCAAGUU	1745	AACUUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGA	17053
1894	AGGCUUUC A AGUUUCUU	1746	AAGAAACU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCCU	17054
1901	CAAGUUUC U UGGGACUC	1747	GAGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUUG	17055
1908	CUUGGGAC U CCCGCAGA	1748	UCUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCAAG	17056
1910	UGGGACUC C CGCAGACA	1749	UGUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCCA	17057
1911	GGGACUCC C GCAGACAC	1750	GUGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCCC	17058
1914	ACUCCCGC A GACACAGG	1751	CCUGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGGAGU	17059
1918	CCGCAGAC A CAGGUCAC	1752	GUGACCTG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCGG	17060
1920	GCAGACAC A GGUCACGG	1753	CCGUGACC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGC	17061
1925	CACAGGUC A CGGCACUG	1754	CAGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IACCUGUG	17062
1930	GUCACGGC A CUGUGGUG	1755	CACCACAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAC	17063
1932	CACGGCAC U GUGGUGUU	1756	AACACCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGUG	17064
1949	GGAUUGC A GUACACUG	1757	CAGUGUAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUCC	17065
1954	UGCAGUAC A CUGGCACG	1758	CGUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUACUGCA	17066
1956	CAGUACAC U GGCACGGA	1759	UCCGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUACUG	17067
1960	ACACUGGC A CGGAUGGA	1760	UCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUGU	17068
1970	GGAUGGAC C UUGCAAAG	1761	CUUUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCC	17069
1971	GAUGGACC U UGCAAAGU	1762	ACUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	17070
1975	GACCUUGC A AAGUUCU	1763	AGGAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGGUC	17071
1982	CAAGUUC C UAUCUGU	1764	ACGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAACUUUG	17072
1983	AAAGUUC U AUCUGUC	1765	GACGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUU	17073
1987	UUCCUAUC U CGUCAGUG	1766	CACUGACG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGAA	17074
1992	AUCUCGUC A GUGGCUUC	1767	GAAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IACAGAU	17075
1998	UCAGUGGC U UCADUGAA	1768	UUCAAUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGA	17076
2001	GUGGCUUC A UUGAACGA	1769	UCGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCCAC	17077
2011	UGAACGAC C UAACGCCA	1770	UGGCGUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUCA	17078
2012	GAACGACC U AACGCCAG	1771	CUGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUCGUUC	17079
2018	CCUACGC C AGUGGGCA	1772	UGCCCACTU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUAGG	17080

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2019	CUAACGCC A GUGGGCAG	1773	CUGCCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUUAG	17081
2026	CAGUGGGC A GAUUGGUC	1774	GACCAAUC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCACUG	17082
2035	GAUUGGUC A CUGUCAAC	1775	GUUGACAG CUGAUGAG	GCCGUUAGGC	CGAA	IACCAAUC	17083
2037	UUGGUCAC U GUCAACCC	1776	GGGUUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUGACCAA	17084
2041	UCACUGUC A ACCCUUUU	1777	AAAAGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IACAGUGA	17085
2044	CUGUCAAC C CUUUUGUU	1778	AACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGACAG	17086
2045	UGUCAACC C UUUUGUUU	1779	AAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGACA	17087
2046	GUCAACCC U UUUUGUUU	1780	GAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUGAC	17088
2055	UUUGUUUC A GUGGCCAC	1781	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAACAAA	17089
2061	UCAGUGGC C ACGGCCAA	1782	UUGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGA	17090
2062	CAGUGGCC A CGGCCAAC	1783	GUUGGCCG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACUG	17091
2067	GCCACGGC C AACGCUAA	1784	UUAGCGGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCGUGGC	17092
2068	CCACGGCC A ACGCUAAG	1785	CUUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGUGG	17093
2073	GCCAACGC U AAGGUCCU	1786	AGGACCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICGUUGGC	17094
2080	CUAAGGUC C UGAUUGAA	1787	UUCAAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IACCUUAG	17095
2081	UAAGGUCC U GAUUGAAU	1788	AUUCAAUC CUGAUGAG	GCCGUUAGGC	CGAA	IGACCUUA	17096
2096	AUUGGAAC C ACCCUUUG	1789	CAAAGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUCCAAU	17097
2097	UUGGAACC A CCCUUGG	1790	CCAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAA	17098
2099	GGAACCAC C CUUUGGAG	1791	CUCCAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUUCC	17099
2100	GAACCACC C UUUGGAGA	1792	UCUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGUUC	17100
2101	AACCACCC U UUGGAGAC	1793	GUCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGGUU	17101
2110	UUGGAGAC U CAUACAUA	1794	UAUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCCAA	17102
2112	GGAGACUC A UACAUAU	1795	ACUAUGUA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUCUCC	17103
2116	ACUCAUAC A UAGUGGUG	1796	CACCACTA CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAGU	17104
2128	UGGUGGGC A GAGGAGAA	1797	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCACCA	17105
2138	AGGAGAAC A ACAGAUCA	1798	UGAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUCCU	17106
2141	AGAACAAC A GAUCAAUC	1799	GAUUGAUC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUUCU	17107
2146	AACAGAUC A AUCACCAU	1800	AUGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCUGUU	17108
2150	GAUCAAUC A CCAUUGGC	1801	GCCAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGAUC	17109
2152	UCAAUAC C AUUGGCAC	1802	GUGCCAAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGA	17110
2153	CAAUACAC A UUGGCACA	1803	UGUGCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGAUUG	17111
2159	CCAUUGGC A CAAGUCUG	1804	CAGACUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAUGG	17112
2161	AUUGGCAC A AGUCUGGA	1805	UCCAGACU CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCAAU	17113
2166	CACAAGUC U GGAAGCAG	1806	CUGCUUCC CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGUG	17114
2173	CUGGAAGC A GCAUUGGC	1807	GCCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUCACG	17115
2176	GAAGCAGC A UUGGCAAA	1808	UUUGCCAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUUC	17116
2182	GCAUUGGC A AAGCCUUU	1809	AAAGGCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAUGC	17117
2187	GGCAAAGC C UUUACAAC	1810	GUUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUGCC	17118
2188	GCAAAGCC U UUACAACC	1811	GGUUGUAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUUUGC	17119
2193	GCCUUUAC A ACCACCCU	1812	AGGUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGGCC	17120
2196	UUUACAAC C ACCUCUAA	1813	UUGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUAAA	17121
2197	UUAACAAC C CCCUCAA	1814	UUUGAGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUAA	17122
2199	ACAACCAC C CCAAAGG	1815	CCUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUUGU	17123
2200	CAACCACC C UCAAAGGA	1816	UCCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGUUG	17124
2201	AACCACCC U CAAAGGAG	1817	CUCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUGUU	17125
2203	CCACCCUC A AAGGAGCG	1818	CGCUCCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGUG	17126
2213	AGGAGCGC A GAGACUAG	1819	CUAGUCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICGCUCCU	17127
2219	GCAGAGAC U AGCCGCUC	1820	GAGCGGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUGC	17128
2223	AGACUAGC C GCUUAGG	1821	CCUAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGUCU	17129
2226	CUAGCCGC U CUAGGAGA	1822	UCUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCUAG	17130
2228	AGCCGCUC U AGGAGACA	1823	UGUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGCU	17131
2236	UAGGAGAC A CAGCUUGG	1824	CCAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCCUA	17132
2238	GGAGACAC A GCUUGGGA	1825	UCCCAAGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUCC	17133
2241	GACACAGC U UGGGACUU	1826	AAGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUGUC	17134
2248	CUUGGGAC U UUGGAUCA	1827	UGAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCCAAG	17135
2256	UUUGGAUC A GUUGGAGG	1828	CCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCCAAA	17136
2272	GGGUGUUC A CCUCAGUU	1829	AACUGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAACACCC	17137
2274	GUGUUCAC C UCGAUUGG	1830	CCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAACAC	17138
2275	UGUUCACC U CAGUUGGG	1831	CCCAACUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGAACAC	17139
2277	UUCACCUC A GUUGGGAA	1832	UUCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGAA	17140
2289	GGGAAGGC U GUCCAUCA	1833	UGAUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUCCC	17141
2293	AGGCUGUC C AUCAAGUG	1834	CACUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCCU	17142

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2294	GGCUGUCC A UCAAGUGU	1835	ACACUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCC	17143
2297	UGUCCAUC A AGUGUUCG	1836	CGAACACU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGACA	17144
2313	GGAGGAGC A UUCGCGUC	1837	GAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCC	17145
2317	GAGCAUUC C GCUCACUG	1838	CAGUGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGCUC	17146
2320	CAUUCGCG U CACUGUUC	1839	GAACAGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGAUUG	17147
2322	UUCGCGUC A CUGUUCGG	1840	CCGAACAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGAA	17148
2324	CCGCUAC U GUUCGGAG	1841	CUCCGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCGG	17149
2335	UCGAGGCG A UGUCCUGG	1842	CCAGGACA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCGA	17150
2340	GGCAUGUC C UGGAUAAC	1843	GUUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IACAUGCC	17151
2341	GCAUGUCC U GGAUAACG	1844	CGUUAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGACAUUC	17152
2351	GAUAACGC A AGGAUUGC	1845	GCAAUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUAUC	17153
2360	AGGAUUGC U GGGGGCUC	1846	GAGCCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCCU	17154
2367	CUGGGGGC U CUCCUGUU	1847	AACAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCCAG	17155
2369	GGGGGCU C UCUGUGUU	1848	ACAACAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCCC	17156
2371	GGGCUUC C UGUUGUGG	1849	CCAGCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCCC	17157
2372	GGCUCUC U GUUGUGGA	1850	UCCACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGCC	17158
2386	GGAUGGGC A UCAAUGCU	1851	AGCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAUCC	17159
2389	UGGGCAUC A AUGCUCGU	1852	ACGAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCCA	17160
2394	AUCAUUGC U CGUGAUAG	1853	CUAUACAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGAU	17161
2406	GAUAGGUC C AUAGCUCU	1854	AGAGCUAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUAUC	17162
2407	AUAGGUCC A UAGCUCUC	1855	GAGAGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUAU	17163
2412	UCCAUGC U CACACGUU	1856	AACGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUAUGGA	17164
2414	CAUAGCUC U CACGUUUC	1857	GAAACGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUAUG	17165
2416	UAGCUCUC A CGUUUCUC	1858	GAGAAACG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCUA	17166
2423	CACGUUUC U CGCAGUUG	1859	CAACUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAAACGUG	17167
2427	UUUCUCGC A GUUGGAGG	1860	CCUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGAGAAA	17168
2441	AGGAGUUC U GCUCUUC	1861	GGAAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAACUCCU	17169
2444	AGUUCUGC U CUUCCUCU	1862	AGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAACU	17170
2446	UUCGUCUC U UCCUCUCC	1863	GGAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAA	17171
2449	UGCUCUUC C UCUCGUG	1864	CACGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGCA	17172
2450	GCUCUUC U CUCCGUGA	1865	UCACGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGC	17173
2452	UCUUCUC U CCGUGAAC	1866	GUUCACGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGA	17174
2454	UUCUCUC C GUGAACGU	1867	ACGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAA	17175
2465	GAACGUGC A CGCUGACA	1868	UGUCAGCG CUGAUGAG	GCCGUUAGGC	CGAA ICACGUUC	17176
2469	GUGCACGC U GACACUGG	1869	CCAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGCAC	17177
2473	ACGCGUAC A CUGGGUGU	1870	ACACCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCGU	17178
2475	GCUGACAC U GGGUGUGC	1871	GCACACCC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGC	17179
2484	GGGUGUGC C AUAGACAU	1872	AUGUCUUA CUGAUGAG	GCCGUUAGGC	CGAA ICACACCC	17180
2485	GGUGUGCC A UAGACAUC	1873	GAUGUCUA CUGAUGAG	GCCGUUAGGC	CGAA IGCACACC	17181
2491	CCAUAGAC A UCAGCCGG	1874	CCGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUGG	17182
2494	UAGACAUC A GCCGGCAA	1875	UUGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCUA	17183
2497	ACAUCAGC C GGCAAGAG	1876	CUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGU	17184
2501	CAGCCGGC A AGAGCUGA	1877	UCAGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCUC	17185
2507	GCAAGAGC U GAGAUGUG	1878	CACAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUGC	17186
2530	GAGUGUUC A UACACAAU	1879	AUUGUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAACACUC	17187
2534	GUUCAUAC A CAAUGAUG	1880	CAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAAC	17188
2536	UCAUACAC A AUGAUGUG	1881	CACAUAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUGA	17189
2550	GUGGAGGC U UGGAUGGA	1882	UCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCAC	17190
2560	GGAUGGAC C GGUACAAG	1883	CUUGUACC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCU	17191
2566	ACCGGUAC A AGUAUUAU	1884	GUAAUACU CUGAUGAG	GCCGUUAGGC	CGAA IUACCGGU	17192
2575	AGUAUUAU C UGAAACG	1885	CGUUUAC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUACU	17193
2576	GUAAUUAU C UGAAACG	1886	GGUUUAC CUGAUGAG	GCCGUUAGGC	CGAA IGUAAUAC	17194
2577	UAUUAUCC U GAAACGCC	1887	GGCGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUAAUA	17195
2585	UGAAACGC C ACAAGGCC	1888	GGCCUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUUCA	17196
2586	GAAACGCC C CAAGGCCU	1889	AGGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUUUC	17197
2588	AACGCCAC A AGGCCUAG	1890	CUAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCUU	17198
2593	CACAAGGC C UAGCCAAG	1891	CUUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGUG	17199
2594	ACAAGGCC U AGCCAAGA	1892	UCUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUGU	17200
2598	GGCCUAGC C AAGAUCAU	1893	AUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUAGGCC	17201
2599	GCCUAGCC A AGAUCAU	1894	AAUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGGC	17202
2605	CCAAGAUC A UUCAGAAA	1895	UUUCUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGG	17203
2609	GAUCAUUC A GAAAGCUC	1896	GAGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAUC	17204

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2616	CAGAAAGC U CAUAAGGA	1897	UCCUUAUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCUG	17205
2618	GAAAGCUC A UAAGGAAG	1898	CUUCCUUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUUC	17206
2639	GUGCGGUC U ACGAUCAG	1899	CUGAUCGU CUGAUGAG	GCCGUUAGGC	CGAA IACCGCAC	17207
2646	CUACGAUC A GUUCCAG	1900	CUGGAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUAG	17208
2652	UCAGUUUC C AGACUGGA	1901	UCCAGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAACUGA	17209
2653	CAGUUUCC A GACTUGGAG	1902	CUCCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAACUG	17210
2657	UUCAGAC U GGAGCAUC	1903	GAUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGAA	17211
2663	ACUGGAGC A UCAAAUGU	1904	ACAUUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAGU	17212
2666	GGAGCAUC A AAUGUGGG	1905	CCCACAUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCUC	17213
2679	UGGGAAGC A GUGAAGGA	1906	UCCUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCCCCA	17214
2693	GGACGAGC U GAACACUC	1907	GAGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGUCC	17215
2698	AGCUAAGC A CUCUUUG	1908	CAAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCAGCU	17216
2700	CUGAACAC U CUUUUGAA	1909	UUCAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCAG	17217
2702	GAACACUC U UUUGAAGG	1910	CCUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUC	17218
2725	GUGUGGAC C UUAGUGUC	1911	GACACUAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCACAC	17219
2726	UGUGGACC U UAGUGUCG	1912	CGACACUA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCACA	17220
2747	UGAGAAAC A GGAGGGAA	1913	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCUA	17221
2761	GAAUGUAC A AGUCAGCA	1914	UGCUGACU CUGAUGAG	GCCGUUAGGC	CGAA IUACAUC	17222
2766	UACAAGUC A GCACCUAA	1915	UUAAGUCU CUGAUGAG	GCCGUUAGGC	CGAA IACUUGUA	17223
2769	AAGUCAGC A CCUAAACG	1916	CGUUUAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUUC	17224
2771	GUCAGCAC C UAAACGCC	1917	GGCGUUUA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGAC	17225
2772	UCAGCACC U AAACGCCU	1918	AGGCGUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUGA	17226
2779	CUAAACGC C UCACCGCC	1919	GGCGUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICGUUUAG	17227
2780	UAAACGCC U CACCGCCA	1920	UGGCGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUUUA	17228
2782	AACGCCUC A CCGCCACC	1921	GGUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGU	17229
2784	CGCCUCAC C GCCACCAC	1922	GUGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGCG	17230
2787	CUCACCGC C ACCACGGA	1923	UCCGUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGAG	17231
2788	UCACCGCC A CCACGGAA	1924	UUCGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGA	17232
2790	ACCGCCAC C ACGGAAA	1925	UUUUCCGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGGU	17233
2791	CCGCCACC A CGGAAAA	1926	UUUUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCGG	17234
2812	AAAUUGGC U GGAAGGCC	1927	GGCCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUUU	17235
2820	UGGAAGGC C UGGGGAAA	1928	UUUCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUA	17236
2821	GGAAGGCC U GGGGAAAG	1929	CUUUCCCC CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUC	17237
2844	UUAUUUGC A CCAGAACU	1930	AGUUUCGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAUA	17238
2846	AUUUGCAC C AGAACUCG	1931	CGAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAAAU	17239
2847	UUUGCACC A GAACUCGC	1932	GCGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGUGCAAA	17240
2852	ACCAGAAC U CGCCAACA	1933	UGUUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGGU	17241
2856	GAACUCGC C AACACAC	1934	GUGUUGUU CUGAUGAG	GCCGUUAGGC	CGAA ICGAGUUC	17242
2857	AACUCGCC A ACAACACC	1935	GGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICGAGUU	17243
2860	UCGCCAAC A ACACUUU	1936	AAAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCGA	17244
2863	CCAACAAC A CCUUUGUG	1937	CACAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUGG	17245
2865	AACAACAC C UUUGUGGU	1938	ACCACAAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGUU	17246
2866	ACAACACC U UUGUGUU	1939	AACCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUGU	17247
2882	UGAUGGUC C GGAGACCA	1940	UGGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IACCAUCA	17248
2889	CCGGAGAC C AAGGAAUG	1941	CAUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCGG	17249
2890	CGGAGACC A AGGAAUGU	1942	ACAUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCG	17250
2900	GGAUGUC C GACUCAGA	1943	UCUGAGUC CUGAUGAG	GCCGUUAGGC	CGAA IACAUUC	17251
2904	UGUCCGAC U CAGAAUCG	1944	CGAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGGACA	17252
2906	UCCGACUC A GAAUCGCG	1945	CGCGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGGA	17253
2916	AAUCGCGC U UGGAUAG	1946	CUAUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICGCGAUU	17254
2926	GGAUAGC U UAGAAGUG	1947	CACUUCUA CUGAUGAG	GCCGUUAGGC	CGAA ICUAUUC	17255
2954	AUUUGGUC U CACCAGCA	1948	UGCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IACCAAU	17256
2956	UUGGUCUC A CCAGCACU	1949	AGUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGACCAA	17257
2958	GGUCUCAC C AGCACUCG	1950	CGAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGACC	17258
2959	GUCUCACC A GCACUCGG	1951	CCGAGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGAC	17259
2962	UCACCAGC A CUCGGAUG	1952	CAUCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGA	17260
2964	ACCAGCAC U CGGAUGUU	1953	AACAUCG CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGGU	17261
2974	GGAUGUUC C UGAAGGUC	1954	GACCUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUC	17262
2975	GAUGUUC U GAAGGUCA	1955	UGACCUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACAU	17263
2983	UGAAGGUC A GAGAGAGC	1956	GCUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IACCUUCA	17264
2992	GAGAGAGC A ACACAACU	1957	AGUUGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCUC	17265
2995	AGAGCAAC A CAACUGAA	1958	UUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCUC	17266

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2997	AGCAACAC A ACUGAAUG	1959	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGCU	17267
3000	AACACAAC U GAAUGUGA	1960	UCACAUTC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUU	17268
3010	AAUGUGAC U CGAAGAUC	1961	GAUCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCACAUU	17269
3019	CGAAGAUC A UUGGAACG	1962	CGUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUCG	17270
3030	GGAACGGC U GUCAAGAA	1963	UUCUUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUCC	17271
3034	CGGCGUGC A AGAACAAC	1964	GUUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCG	17272
3040	UCAAGAAC A ACUUGGCG	1965	CGCCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUGA	17273
3043	AGAACAAC U UGGCGAUC	1966	GAUCGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUCU	17274
3052	UGGCGAUC C ACAGUGAC	1967	GUACUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCA	17275
3053	GGCGAUCC A CAGUGACC	1968	GGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA IGACGCC	17276
3055	CGAUCCAC A GUGACCUG	1969	CAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUCG	17277
3061	ACAGUGAC C UGUCCUAU	1970	AUAGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	17278
3062	CAGUGACC U GUCCUAU	1971	AAUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	17279
3066	GACCGUGC C UAUUGGAU	1972	AUCCAAUA CUGAUGAG	GCCGUUAGGC	CGAA IACAGGUC	17280
3067	ACCUGUCC U AUUGGAU	1973	AAUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA IGACAGGU	17281
3082	UUGAAAGC A GGCUCAAU	1974	AUUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAA	17282
3086	AAGCAGGC C CAAUGAUA	1975	UAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCUU	17283
3088	GCAGGUCU A AUGAUACG	1976	CGUAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGC	17284
3104	GUGGAAGC U UGAAAGGG	1977	CCCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCAC	17285
3114	GAAAGGGC A GUUCUGGG	1978	CCCAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCUUUC	17286
3119	GGCAUUC U GGGUGAAG	1979	CUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IACUGCC	17287
3130	GUGAAGUC A AAUCAUGU	1980	ACAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUCAC	17288
3135	GUCAAUUC A UGUACGUG	1981	CACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGAC	17289
3146	UACGUGGC C UGAGACGC	1982	GCGUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCACGUA	17290
3147	ACGUGGCC U GAGACGCA	1983	UGCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGU	17291
3155	UGAGACGC A UACCUUGU	1984	ACAAGGUA CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUCA	17292
3159	ACGCAUAC C UUGUGGGG	1985	CCCCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGCGU	17293
3160	CGCAUACC U UGUGGGGC	1986	GCCCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGCG	17294
3178	AUGGAAUC C UUGAGAGU	1987	ACUCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCCAU	17295
3179	UGGAAUCC U UGAGAGUG	1988	CACUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGCA	17296
3190	AGAGUGAC U UGAUAUA	1989	UAUUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUCU	17297
3200	GAUAUAC C AGUCACAC	1990	GUGUGACU CUGAUGAG	GCCGUUAGGC	CGAA IUAUUAUC	17298
3201	AUAUAUAC A GUCACACU	1991	AGUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUAU	17299
3205	UACCAGUC A CACUGGCG	1992	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGUA	17300
3207	CCAGUCAC A CUGGCGGG	1993	CCCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACUGG	17301
3209	AGUCACAC U GGCGGGAC	1994	GUCCCGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGACU	17302
3218	GGCGGGAC C ACGAAGCA	1995	UGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCCGCC	17303
3219	GCGGGACC A CGAAGCAA	1996	UUGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCCGC	17304
3226	CACGAAGC A AUCACAAU	1997	AUUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17305
3230	AAGCAUUC A CAAUCGGA	1998	UCCGAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUU	17306
3232	GCAAUAC A AUCGGAGA	1999	UCUCCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGC	17307
3242	UCGGAGAC C UGGGUACA	2000	UGUACCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCGA	17308
3243	CGGAGACC U GGUACAA	2001	UUGUACCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCG	17309
3250	CUGGGUAC A AGACACAA	2002	UUGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IUACCCAG	17310
3255	UACAAGAC A CAAAACCA	2003	UGGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUGUA	17311
3257	CAAGACAC A AAACCAGG	2004	CCUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUUG	17312
3262	CACAAAAC C AGGGCCCA	2005	UGGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUG	17313
3263	ACAAAACC A GGGCCCAU	2006	AUGGGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUGU	17314
3268	ACCAGGGC C CAUGGGAC	2007	GUCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGU	17315
3269	CCAGGGCC C AUGGGACG	2008	CGUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGG	17316
3270	CAGGGCCC A UGGGACGA	2009	UCGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCCUG	17317
3283	ACGAAGGC C GGGUAGAG	2010	CUCUACCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCGU	17318
3298	AGAUUGAC U UCGAUUAC	2011	GUAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCU	17319
3307	UCGAUUAC U GCCCAGGA	2012	UCCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUAUUGCA	17320
3310	AUUAUCUG C CAGGAACU	2013	AGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAU	17321
3311	UUACUGCC C AGGAACUA	2014	UAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUAA	17322
3312	UACUGCCC A GGAACUAC	2015	GUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUA	17323
3318	CCAGGAAC U ACGGUCAC	2016	GUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGG	17324
3325	CUACGGUC A CCCUGAGU	2017	ACUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACCGUAG	17325
3327	ACGGUCAC C CUGAGUGA	2018	UACUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACCGU	17326
3328	CGGUCACC C UGAGUGAG	2019	CUCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACCG	17327
3329	GGUCACCC U GAGUGAGA	2020	UCUACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACC	17328

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3298	AGAUUGAC U UCGAUUAC	2011	GUAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCU	17319
3307	UCGAUUAC U GCCCAGGA	2012	UCCUGGSC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCGA	17320
3310	AUUAUGUC C CAGGAACU	2013	AGUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAAU	17321
3311	UUACUGCC C AGGAACUA	2014	UAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUAA	17322
3312	UACUGCCC A GGAACUAC	2015	GUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUA	17323
3318	CCAGGAAC U ACGGUCAC	2016	GUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGG	17324
3325	CUACGGUC A CCTUGAGU	2017	ACUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACCGUAG	17325
3327	ACGGUCAC C CUGAGUGA	2018	UCACUCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACCGU	17326
3328	CGGUCACC C UGAGUGAG	2019	CUACUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACCG	17327
3329	GGUCACCC U GAGUGAGA	2020	UCUCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACC	17328
3340	GUGAGAGC U GCGGACAC	2021	GUGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCAC	17329
3347	CUGCGGAC A CCGUGGAC	2022	GUCACCGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCAG	17330
3349	GCGGACAC C GUGGACCU	2023	AGGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCCG	17331
3356	CCUGGAC C UGCCACUC	2024	GAGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCACGG	17332
3357	CGUGGACC U GCCACUCG	2025	CGAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCACG	17333
3360	GGACCUGC C ACUCGCAC	2026	GUGCGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGGUCC	17334
3361	GACCUGCC A CUCGCACC	2027	GGUGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGGUC	17335
3363	CCUGCCAC U CGCACAC	2028	GUGGUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGG	17336
3367	CCACUCGC A CCACACA	2029	UUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGG	17337
3369	ACUCGCAC C ACCACAGA	2030	UCUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGAGU	17338
3370	CUCGCACC A CCACAGAG	2031	CUCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCGAG	17339
3372	CGCACAC C ACAGAGAG	2032	CUUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCG	17340
3373	GCACCAC A CAGAGAGC	2033	GCUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUGC	17341
3375	ACCACCAC A GAGAGCGG	2034	CCGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGGU	17342
3396	UUGAUUAC A GAUUGUG	2035	CACCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAA	17343
3406	AUUGGUGC U GCAGGAGC	2036	GCUCUCGC CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAU	17344
3409	GGUGCUGC A GGAGCUGC	2037	GCAGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCACC	17345
3415	GCAGGAGC U GCACCUUA	2038	UAAGGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCGC	17346
3418	GGAGCUGC A CCTUACCA	2039	UGGUAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUCC	17347
3420	AGCUGAC C UUACCACC	2040	GGUGUAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGCU	17348
3421	GCUGCACC U UACCACCA	2041	UGGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCAGC	17349
3425	CACCUUAC C ACCACUGC	2042	GCAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUAAAGGUG	17350
3426	ACCUUACC A CCACUGCG	2043	CGCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUAAGGU	17351
3428	CUUACCAC C ACUGCGCU	2044	AGCGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUAG	17352
3429	UUACCACC A CUGCGCUA	2045	UAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUAA	17353
3431	ACCACCAC U GCGCUACC	2046	GGUAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGGU	17354
3436	CACUGCGC U ACCAAACU	2047	AGUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGUG	17355
3439	UGCGCUAC C AAACUGAC	2048	GUCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGCGCA	17356
3440	GCGCUACC A AACUGACA	2049	UGUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUAGCGC	17357
3444	UACCAAC U GACAGCGG	2050	CCGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGUA	17358
3448	AAACUGAC A GCGCUGU	2051	ACAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGUUU	17359
3454	ACAGCGGC U GUUGGUU	2052	AUACCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGU	17360
3475	UGGAGAU C GACCACAG	2053	CUGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUCA	17361
3479	GAUCAGAC C ACAGAGAC	2054	GUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAUC	17362
3480	AUCAGACC A CAGAGACA	2055	UGUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGAU	17363
3482	CAGACCAC A GAGCAUG	2056	CAUGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCUG	17364
3488	ACAGAGAC A UGAUAAA	2057	UUUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUGU	17365
3501	GAAAAGAC C CUCUGCA	2058	UGCACGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUUUC	17366
3502	AAAAGACC C UCGUGCAG	2059	CUGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUUU	17367
3503	AAAGACCC U CGUGCAGU	2060	ACUGCACG CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUUU	17368
3509	CCUCGUGC A GUCACAAG	2061	CUUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACGAGG	17369
3513	GUGCAGUC A CAAGUGAA	2062	UUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAC	17370
3515	GCAGUCAC A AGUGAAUG	2063	CAUUCACU CUGAUGAG	GCCGUUAGGC	CGAA IUGACUGC	17371
3525	GUGAAUGC U UAUAAUGC	2064	GCAUUAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUCAC	17372
3534	UAUAUUGC U GAUAUGAU	2065	AUCAUAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUA	17373
3547	UGAUUGAC C CUUUUCAG	2066	CUGAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	17374
3548	GAUUGACC C UUUUCAGU	2067	ACUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUC	17375
3549	AUUGACCC U UUUUCAGU	2068	AACUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAAU	17376
3554	CCUUUUUC A GUUGGGCC	2069	GGCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGGG	17377
3562	AGUUGGCG C UUCUGGUC	2070	GACCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAACU	17378
3563	GUUGGGCC U UCUGGUCG	2071	CGACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAAC	17379

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3566	GGGCCUUC U GGUCUGU	2072	ACACGACC CUGAUGAG GCGGUUAGGC CGAA IAAGGCC	17380
3577	UCGUGUUC U UGGCCACC	2073	GGUGGCCA CUGAUGAG GCGGUUAGGC CGAA IAACACGA	17381
3582	UUCUUGGC C ACCCAGGA	2074	UCCUGGGU CUGAUGAG GCGGUUAGGC CGAA ICCAAGAA	17382
3583	UCUUGGCC A CCCAGGAG	2075	CUCCUGGG CUGAUGAG GCGGUUAGGC CGAA IGCCAAGA	17383
3585	UUGGCCAC C CAGGAGGU	2076	ACCUCUUG CUGAUGAG GCGGUUAGGC CGAA IUGGCCAA	17384
3586	UGGCCACC C AGGAGGUC	2077	GACCUCU CUGAUGAG GCGGUUAGGC CGAA IGUGGCCA	17385
3587	GGCCACCC A GGAGGUCC	2078	GGACCUC CUGAUGAG GCGGUUAGGC CGAA IGGUGGCC	17386
3595	AGGAGGUC C UUCGCAAG	2079	CUUGCGAA CUGAUGAG GCGGUUAGGC CGAA IACCUCU	17387
3596	GGAGGUCC U UCGCAAGA	2080	UCUUGCGA CUGAUGAG GCGGUUAGGC CGAA IGACCUC	17388
3601	UCCUUCGC A AGAGGUGG	2081	CCACCUCU CUGAUGAG GCGGUUAGGC CGAA ICGAAGGA	17389
3612	AGGUGGAC A GCCAAGAU	2082	AUCUUGGC CUGAUGAG GCGGUUAGGC CGAA IUCCACCU	17390
3615	UGGACAGC C AAGAUCA	2083	CUGAUCU CUGAUGAG GCGGUUAGGC CGAA ICUGUCCA	17391
3616	GGACAGCC A AGAUCA	2084	GCUGAUC CUGAUGAG GCGGUUAGGC CGAA IAGGUCC	17392
3622	CCAAGAU C GAUGCCA	2085	UGGCAUG CUGAUGAG GCGGUUAGGC CGAA IAUCUUG	17393
3625	AGAUCA C UGCCAGCU	2086	AGCUGGCA CUGAUGAG GCGGUUAGGC CGAA ICUGAUCU	17394
3629	CAGCAUG C AGCUAUAC	2087	GUUAUGCU CUGAUGAG GCGGUUAGGC CGAA ICAUGCUG	17395
3630	AGCAUGCC A GCUAUACU	2088	AGUAUAGC CUGAUGAG GCGGUUAGGC CGAA IGCAUGCU	17396
3633	AUGCCAGC U AUACUGAU	2089	AUCAGUAU CUGAUGAG GCGGUUAGGC CGAA ICUGGCAU	17397
3638	AGCUAUAC U GAUUGCUC	2090	GAGCAAUC CUGAUGAG GCGGUUAGGC CGAA IUUAUGCU	17398
3645	CUGAUUGC U CUGCAUGU	2091	ACUAUAGC CUGAUGAG GCGGUUAGGC CGAA ICAUACAG	17399
3647	GAUUGCUC U GCUAGUCC	2092	GGACUAGC CUGAUGAG GCGGUUAGGC CGAA IAGCAAUC	17400
3650	UGCUCUGC U AGUCCUGG	2093	CCAGGACU CUGAUGAG GCGGUUAGGC CGAA ICAGAGCA	17401
3655	UGCUAGUC C UGGUGUUU	2094	AAACACCA CUGAUGAG GCGGUUAGGC CGAA IACUAGCA	17402
3656	GCUAGUCC U GGUGUUUG	2095	CAAACACC CUGAUGAG GCGGUUAGGC CGAA IGACUAGC	17403
3670	UUGGGGGC A UUAUCUAC	2096	GUAAGUAA CUGAUGAG GCGGUUAGGC CGAA ICCCCCAA	17404
3675	GGCAUUA C UACACUGA	2097	UCAGUGUA CUGAUGAG GCGGUUAGGC CGAA IUAAUGCC	17405
3679	UUAUCUAC A CUGAUGUG	2098	CACAUCAG CUGAUGAG GCGGUUAGGC CGAA IUAAAGUA	17406
3681	ACUUAAC U GAUGUGUU	2099	AACACAUC CUGAUGAG GCGGUUAGGC CGAA IUGUAAGU	17407
3694	UGUUAACG U AUGUCAUC	2100	GAUGACAU CUGAUGAG GCGGUUAGGC CGAA ICGUAACA	17408
3700	GCUAUGUC A UCUGGUG	2101	CACCAAGA CUGAUGAG GCGGUUAGGC CGAA IACAUAGC	17409
3703	AUGUCAUC U UGGUGGGG	2102	CCCCACCA CUGAUGAG GCGGUUAGGC CGAA IAUGACAU	17410
3714	GUGGGGGC A GCUUUCGC	2103	GCGAAAGC CUGAUGAG GCGGUUAGGC CGAA ICCCCAC	17411
3717	GGGGCAGC U UUCGCAGA	2104	UCUGCGAA CUGAUGAG GCGGUUAGGC CGAA ICUGCCCC	17412
3723	GCUUUCGC A GAAUCUAA	2105	UUAGAUCU CUGAUGAG GCGGUUAGGC CGAA ICGAAAGC	17413
3729	GCAGAAUC U AAUUCGGG	2106	CCCGAAUC CUGAUGAG GCGGUUAGGC CGAA IAUUCUGC	17414
3752	CGUGGUAC A CUUGGCGC	2107	GCGCCAAG CUGAUGAG GCGGUUAGGC CGAA IUACACG	17415
3754	UGGUACAC U UGGGCGUC	2108	GAGCGCCA CUGAUGAG GCGGUUAGGC CGAA IUGUACCA	17416
3761	CUUGGCGC U CAUGGCGA	2109	UCGCGAUG CUGAUGAG GCGGUUAGGC CGAA ICGCCAAG	17417
3763	UGGCGCUC A UGCGGACC	2110	GGUCGCCA CUGAUGAG GCGGUUAGGC CGAA IAGCGCCA	17418
3771	AUGGCGAC C UUCAAGAU	2111	AUCUUGAA CUGAUGAG GCGGUUAGGC CGAA IUCGCCAU	17419
3772	UGGCGACC U UCAAGAU	2112	UAUCUGA CUGAUGAG GCGGUUAGGC CGAA IGUCGCCA	17420
3775	CGACCUUC A AGAUCAA	2113	UUGUAUCU CUGAUGAG GCGGUUAGGC CGAA IAAGGUCC	17421
3782	CAAGAUAC A ACCAGUGU	2114	ACACUGGU CUGAUGAG GCGGUUAGGC CGAA IUAUCUUG	17422
3785	GAUACAAC C AGUGUUA	2115	UAAACACU CUGAUGAG GCGGUUAGGC CGAA IUUGUAUC	17423
3786	AUACAACC A GUGUUUAU	2116	AUAAACAC CUGAUGAG GCGGUUAGGC CGAA IGUGUAUC	17424
3801	AUGGUGGC A UCGUUCU	2117	AGAAACGA CUGAUGAG GCGGUUAGGC CGAA ICCACCAU	17425
3809	AUCGUUUC U CAAAGCGA	2118	UCGUUUG CUGAUGAG GCGGUUAGGC CGAA IAAACGAU	17426
3811	CGUUCUC A AAGCGAGA	2119	UCUCGUU CUGAUGAG GCGGUUAGGC CGAA IAGAAACG	17427
3825	AGAUGGAC C AACGAGGA	2120	UCCUGGUU CUGAUGAG GCGGUUAGGC CGAA IUCCAUCU	17428
3826	GAUGGACC A ACCAGGAG	2121	CUCCUGGU CUGAUGAG GCGGUUAGGC CGAA IGUCCAUC	17429
3829	GGACCAAC C AGGAGAAC	2122	GUUCUCCU CUGAUGAG GCGGUUAGGC CGAA IUUGGUCC	17430
3830	GACCAACC A GGAGAACA	2123	UGUUCUCC CUGAUGAG GCGGUUAGGC CGAA IUGUGUCC	17431
3838	AGGAGAAC A UUUUGUUG	2124	CAACAAA CUGAUGAG GCGGUUAGGC CGAA IUUCUCCU	17432
3858	UUGGCGGC U GUUUUCU	2125	AAGAAAAC CUGAUGAG GCGGUUAGGC CGAA ICCGCCAA	17433
3865	CUGUUUC U UUCAAAUG	2126	CAUUGAA CUGAUGAG GCGGUUAGGC CGAA IAAAACAG	17434
3869	UUUCUUC A AAUGGCUU	2127	AAGCCAUC CUGAUGAG GCGGUUAGGC CGAA IAAAGAAA	17435
3876	CAAUUGC U UAUCACGA	2128	UCGUGAU CUGAUGAG GCGGUUAGGC CGAA ICCAUUUG	17436
3881	GGCUUAUC A CGAUGCCC	2129	GGCAUCG CUGAUGAG GCGGUUAGGC CGAA IAAAGGCC	17437
3888	CACGAUC C CGCCAAU	2130	AUUGGCG CUGAUGAG GCGGUUAGGC CGAA IAUAGGUG	17438
3889	ACGAUGCC C GCCAAAU	2131	AAUUGGC CUGAUGAG GCGGUUAGGC CGAA ICAUCUGU	17439
3892	AUGCCGC C AAUUCUG	2132	CAGAAUU CUGAUGAG GCGGUUAGGC CGAA ICGGCAU	17440

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3893	UGCCCGCC A AAUUCUGC	2133	GCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGGGCA	17441
3899	CCAAAUUC U GCUCUGG	2134	CCCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUGG	17442
3902	AAUUCUGC U CUGGGAGA	2135	UCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAU	17443
3904	UUCUGCUC U GGGAGAU	2136	GAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAA	17444
3913	GGGAGAU C CUGAUGUG	2137	CACAUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCUCC	17445
3914	GGAGAUCC C UGAUGUGU	2138	ACACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUC	17446
3915	GAGAUCCC U GAUGUGU	2139	AACACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUC	17447
3930	UUGAAUUC A UUGCGGU	2140	ACCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUCAA	17448
3932	GAAUUCAC U GGCUGUAG	2141	CUACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUUC	17449
3942	GCGUAGC U UGGAUGAU	2142	AUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCG	17450
3953	GAUGAUAC U GAGAGCCA	2143	UGGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUAUCAUC	17451
3960	CUGAGAGC C AUAACAU	2144	AAUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCAG	17452
3961	UGAGAGCC A UAACAUUC	2145	GAAUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUCA	17453
3966	GCCAUAC A UUCACAAC	2146	GUUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGC	17454
3970	UAACAUUC A CAACGACA	2147	UGUCGUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUUA	17455
3972	ACAUUCAC A ACGACAUC	2148	GAUGUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUGU	17456
3978	ACAACGAC A UCAACCGU	2149	ACGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUGU	17457
3981	ACGACAUC A AACGUGGU	2150	ACCACGUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCGU	17458
3995	GGUUGUUC C GCUCUAG	2151	CUAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA IAACAACC	17459
3998	UGUUCGCG U GCUAGCCC	2152	GGGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAACA	17460
4001	UCCGUCG U AGCCUGC	2153	GCAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGA	17461
4005	CUGCUAGC C CUGCUAAC	2154	GUUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAG	17462
4006	UGCUGACC C UGCUAACA	2155	UGUWAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGCA	17463
4007	GCUAGCCC U GCUAACAC	2156	GUGUWAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAGC	17464
4010	AGCCUGC U AACACCCG	2157	CGGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGCU	17465
4014	CUGCUAAC A CCCGGGCU	2158	AGCCCGG CUGAUGAG	GCCGUUAGGC	CGAA IUUAGCAG	17466
4016	GCUAACAC C CGGCGUGA	2159	UCAGCCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGUWAGC	17467
4017	CUAACACC C GGGCUGAG	2160	CUAGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUWAG	17468
4022	ACCCGGG U GAGAUGCU	2161	AGCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCCGGGU	17469
4030	UGAGAUGC U UGAAUCUG	2162	CAGAUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUCA	17470
4037	CUUGAAUC U GGAUGUGU	2163	ACACAUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCAAG	17471
4048	AUGUGUAC A GGAUACUG	2164	CAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUACAU	17472
4055	CAGGAUAC U GCUGUUGA	2165	UCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUAUCCUG	17473
4058	GAUACUGC U GUUGAUGG	2166	CCAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAUC	17474
4078	GAAUAGGC A GCUUGAUC	2167	GAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUAUUC	17475
4081	UAGGCAGC U UGAUCAGG	2168	CCUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCUA	17476
4087	GUUGAUC A GGGAGAAG	2169	CUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAGC	17477
4104	AGGAGUGC A GCUGCAA	2170	UUUWAGC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCCU	17478
4107	AGUGCAGC U GCAAAAAA	2171	UUUUUWAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCACU	17479
4110	GCAGCUGC A AAAAGAA	2172	UUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUGC	17480
4125	AAAGGAGC A AGUCUGCU	2173	AGCAGACU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUU	17481
4130	AGCAAGUC U GCUAUGCU	2174	AGCAUAGC CUGAUGAG	GCCGUUAGGC	CGAA IACUUGCU	17482
4133	AAGUCUGC U AUGCUUGG	2175	CCAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGACUU	17483
4138	UGCUGAUC U UGGCUCUA	2176	UAGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA ICAUAGCA	17484
4143	UGCUGGC U CUAGCCUC	2177	GAGGCUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGCA	17485
4145	CUUGGCUC U AGCCUCAA	2178	UUGAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAAG	17486
4149	GCUCUAGC C UCAACAGG	2179	CCUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUAGAGC	17487
4150	CUUCUAGC U CAACAGGA	2180	UCCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGAG	17488
4152	CUAGCCUC A ACAGGACU	2181	AGUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUAG	17489
4155	GCCUCAAC A GGACUUU	2182	AAAAGUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGGC	17490
4160	AACAGGAC U UUUCAACC	2183	GGUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGUU	17491
4165	GACUUUUC A ACCCCAUG	2184	CAUGGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGUC	17492
4168	UUUUCAAC C CCAUGAUC	2185	GAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAA	17493
4169	UUUCAACC C CAUGAUC	2186	GGAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAAA	17494
4170	UUAACCC C AUGAUCCU	2187	AGGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGAA	17495
4171	UCAACCC A UGAUCCU	2188	AAGGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGA	17496
4177	CCAUGAUC C UUGCUGCU	2189	AGCAGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUGG	17497
4178	CAUGAUC U UGCUGCUG	2190	CAGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAUG	17498
4182	AUCCUUGC U GCUGGACU	2191	AGUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAGGAU	17499
4185	CUUGCUGC U GGACUGAU	2192	AUCAGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAAG	17500
4190	UGCUGGAC U GAUUGCAU	2193	AUGCAAUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGCA	17501

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4266	AUGUUUGC C AUCGUCGG	2207	CCGACGAU CUGAUGAG GCGUUAGGC	CGAA ICAAACAU	17515
4267	UGUUUGCC A UCGUCGGA	2208	UCCGACGA CUGAUGAG GCGUUAGGC	CGAA IGCAAAACA	17516
4280	CGGAGGGC U GGCAGAGC	2209	GCUCUGCC CUGAUGAG GCGUUAGGC	CGAA ICCUCUCG	17517
4284	GGGUGGC A GAGCUUGA	2210	UCAAGCUC CUGAUGAG GCGUUAGGC	CGAA ICCAGCCC	17518
4289	GGCAGGC U UGACAUUG	2211	CAAUGUCA CUGAUGAG GCGUUAGGC	CGAA ICUCUGCC	17519
4294	AGCUUGAC A UUGACUCC	2212	GGAGUCA CUGAUGAG GCGUUAGGC	CGAA IUCAAGCU	17520
4300	ACAUGAC U CCAUGGCC	2213	GGCCAUGG CUGAUGAG GCGUUAGGC	CGAA IUCAAUGU	17521
4302	AUUGACUC C AUGGCCAU	2214	AUGGCCAU CUGAUGAG GCGUUAGGC	CGAA IAGUCAAU	17522
4303	UUGACUCC A UGGCCAUT	2215	AAUGGCCA CUGAUGAG GCGUUAGGC	CGAA IGAGUCA	17523
4308	UCCAUGGC C AUUCCAAT	2216	AUUGGAAT CUGAUGAG GCGUUAGGC	CGAA ICCAUGGA	17524
4309	CCAUGGCC A UUCCAUG	2217	CAUUGGAA CUGAUGAG GCGUUAGGC	CGAA IGCCAUGG	17525
4313	GGCCAUGC C AAUGACUA	2218	UAGUCAUT CUGAUGAG GCGUUAGGC	CGAA IAAUGGCC	17526
4314	GCCAUTCC A AUGACUAT	2219	AUAGUCAU CUGAUGAG GCGUUAGGC	CGAA IGAAUGGC	17527
4320	CCAAUGAC U AUCGCGGG	2220	CCCGCGAU CUGAUGAG GCGUUAGGC	CGAA IUCAUUGG	17528
4331	CGCGGGGC U CAUGUUUG	2221	CAACAACG CUGAUGAG GCGUUAGGC	CGAA ICCCGCG	17529
4333	CGGGGCGC A UGUUUGCU	2222	AGCAAACA CUGAUGAG GCGUUAGGC	CGAA IAGCCCCG	17530
4341	AUGUUUGC U GCUUUCGU	2223	ACGAAAGC CUGAUGAG GCGUUAGGC	CGAA ICAAACAT	17531
4344	UUUGCGUC U UUCGUGAU	2224	AUACGAA CUGAUGAG GCGUUAGGC	CGAA ICAGCAA	17532
4356	GUGAUUUC U GGGAAUUC	2225	GAUUUCCC CUGAUGAG GCGUUAGGC	CGAA IAAAUAC	17533
4365	GGGAAUUC A ACAGAUAT	2226	AUAUCUGU CUGAUGAG GCGUUAGGC	CGAA IAUUUCCC	17534
4368	AAAUCAAC A GAUAUGUG	2227	CACAUUUC CUGAUGAG GCGUUAGGC	CGAA IUUGAUUU	17535
4396	CGGCGGAC A UUUCGUGG	2228	CCAGGAAA CUGAUGAG GCGUUAGGC	CGAA IUCCGCGG	17536
4401	GACAUUUC C UGGGAAAG	2229	CUUCCCCA CUGAUGAG GCGUUAGGC	CGAA IAAAUUUC	17537
4402	ACAUUUCU U GGGAAAGU	2230	ACUUUCCC CUGAUGAG GCGUUAGGC	CGAA IGAAUUGU	17538
4416	AGUGAUGC A GAAAUUAC	2231	GUAAUUUC CUGAUGAG GCGUUAGGC	CGAA ICAUCACU	17539
4425	GAAAUUAC A GGCUCGAG	2232	CUCGAGCC CUGAUGAG GCGUUAGGC	CGAA IUAAUUUC	17540
4429	UACAGGC U CGAGCGAA	2233	UUCGUCUG CUGAUGAG GCGUUAGGC	CGAA ICCUGUAA	17541
4454	UGUGCGGC U UGAUGAUG	2234	CAUCAUCA CUGAUGAG GCGUUAGGC	CGAA ICCGCACA	17542
4471	AUGGAAAC U UCCAGCUC	2235	GAGCUGGA CUGAUGAG GCGUUAGGC	CGAA IUUCCAU	17543
4474	GAAACUUC C AGCUCAUG	2236	CAUGAGCU CUGAUGAG GCGUUAGGC	CGAA IAAGUUTC	17544
4475	AAACUUC C GCUCAUGA	2237	UCAUGAGC CUGAUGAG GCGUUAGGC	CGAA IGAAGUUU	17545
4478	CUUCCAGC U CAUGAAUG	2238	CAUUCAGU CUGAUGAG GCGUUAGGC	CGAA ICUGGAAG	17546
4480	UCCAGCUC A UGAAUGAU	2239	AUCAUCCA CUGAUGAG GCGUUAGGC	CGAA IAGCUGGA	17547
4490	GAAUGAUC C AGGAGCAC	2240	GUGCUCUC CUGAUGAG GCGUUAGGC	CGAA IAUCAUUC	17548
4491	AAUGAUCC A GGAGCACC	2241	GGUGCUC CUGAUGAG GCGUUAGGC	CGAA IGAUCAUU	17549
4497	CCAGGAGC A CCUUGGAA	2242	UUCCAAGG CUGAUGAG GCGUUAGGC	CGAA ICUCUCUGG	17550
4499	AGGAGCAC C UUGGAAGA	2243	UCUCCCAA CUGAUGAG GCGUUAGGC	CGAA IUGCUCCU	17551
4500	GGAGCACC U UGGAAGAU	2244	AUCUCCA CUGAUGAG GCGUUAGGC	CGAA IGUGCUCC	17552
4517	AUGGAUGC U CAGAAUGG	2245	CAUUCUG CUGAUGAG GCGUUAGGC	CGAA ICAUCCA	17553
4519	GGAUGCUC A GAAUGGUC	2246	GACCAUUC CUGAUGAG GCGUUAGGC	CGAA IAGCAUCC	17554
4528	GAAUGGUC U GUCUCGCG	2247	CGGAGAC CUGAUGAG GCGUUAGGC	CGAA IACCAUUC	17555
4532	GGUCUGUC U CGCGAUUA	2248	UAAUCGCG CUGAUGAG GCGUUAGGC	CGAA IACAGACC	17556
4549	GUGCGUAC A CCCCUUGG	2249	CCAGGGGG CUGAUGAG GCGUUAGGC	CGAA IUACGCAC	17557
4551	GCGUACAC C CCCUGGCG	2250	GCCCAGGG CUGAUGAG GCGUUAGGC	CGAA IUGUACG	17558
4552	CGUACACC C CCUGGGCA	2251	UGCCAGG CUGAUGAG GCGUUAGGC	CGAA IGUGUACG	17559
4553	GUACACCC C CUGGGCAA	2252	UUGCCAG CUGAUGAG GCGUUAGGC	CGAA IGGUGUAC	17560
4554	UACACCCC C UGGGCAAU	2253	AUUGCCA CUGAUGAG GCGUUAGGC	CGAA IGGUGUA	17561
4555	ACACCCC U GGGCAAU	2254	GAUUGCC CUGAUGAG GCGUUAGGC	CGAA IGGGUGU	17562
4560	CCUGGGC A AUCUUGCC	2255	GGCAAGAU CUGAUGAG GCGUUAGGC	CGAA ICCAGGG	17563
4564	GGGCAUUC U UGCCUCA	2256	UGAGGGCA CUGAUGAG GCGUUAGGC	CGAA IAUUGCCC	17564
4568	AAUCUUGC C CUCAGUAG	2257	CUACUGAG CUGAUGAG GCGUUAGGC	CGAA ICAAGAUU	17565
4569	AUCUUGCC C UCAGUAGU	2258	ACUACUGA CUGAUGAG GCGUUAGGC	CGAA IGCAAGAU	17566
4570	UCUUGCCC U CAGUAGU	2259	AACUACUG CUGAUGAG GCGUUAGGC	CGAA IGGCAAGA	17567
4572	UUGCCCU C GUAGUUGG	2260	CCAACUAC CUGAUGAG GCGUUAGGC	CGAA IAGGGCAA	17568
4593	UGGAUAAC U CUCCAUA	2261	UAUUGGAG CUGAUGAG GCGUUAGGC	CGAA IUUAUCCA	17569
4595	GAUAACUC U CCAAUACA	2262	UGUAUUGG CUGAUGAG GCGUUAGGC	CGAA IAGUUAUC	17570
4597	UAACUCUC C AAUACACA	2263	UGUGUAUU CUGAUGAG GCGUUAGGC	CGAA IAGAGUUA	17571
4598	AACUCUCC A AUACACAA	2264	UUGUGUAU CUGAUGAG GCGUUAGGC	CGAA IGAGAGUU	17572
4603	UCCAUAAC A CAAAGAGA	2265	UCUCUUG CUGAUGAG GCGUUAGGC	CGAA IUUAUUGA	17573
4605	CAUAACAC A AAGAGAGG	2266	CCUCUCUU CUGAUGAG GCGUUAGGC	CGAA IUGUAUUG	17574
4630	UGUGGGAC A CUCCUCA	2267	UGAGGGAG CUGAUGAG GCGUUAGGC	CGAA IUCCACA	17575
4632	UGGGACAC U CCCUACCC	2268	GGUGAGGG CUGAUGAG GCGUUAGGC	CGAA IUGUCCA	17576

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4634	GGACACUC C CUCACCAA	2269	UUGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCC	17577
4635	GACACUCC C UCACCAAA	2270	UUUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUC	17578
4636	ACACUCCC U CACCAAAG	2271	CUUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUGU	17579
4638	ACUCCUCC A CCAAAGGA	2272	UCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGAGU	17580
4640	UCCUCAC C AAAGGAGU	2273	ACUCCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGGA	17581
4641	CCCUCACC A AAGGAGUA	2274	UACUCCUU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGGG	17582
4651	AGGAGUAC A AAAAGGGG	2275	CCCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUACUCCU	17583
4663	AGGGGAC A CGACCAAC	2276	GGUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCCCU	17584
4668	GACACGAC C ACCGGCGU	2277	ACGCCGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGUC	17585
4669	ACACGACC A CCGCGUC	2278	GACGCCGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCGUGU	17586
4671	ACGACCAC C GCGUCUA	2279	UAGACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCGU	17587
4678	CCGCGUC U ACAGGAUC	2280	GAUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IACGCCGG	17588
4681	GCGUCUAC A GGAUCAUG	2281	CAUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUAGACGC	17589
4687	ACAGGAUC A UGACUCGU	2282	ACGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUGU	17590
4692	AUCAUGAC U CGUGGCU	2283	AGCCCACG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAU	17591
4700	UCGUGGC U GCUCGCA	2284	UGCCGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACGA	17592
4703	UGGGCUGC U CGGCAGUU	2285	AACUGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCCA	17593
4708	UGCUCGCG A GUUAUCAA	2286	UUGAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICCGAGCA	17594
4715	CAGUUAUC A AGCAGGAG	2287	CUCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUACUG	17595
4719	UAUCAAGC A GGAGCGG	2288	CCCGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAU	17596
4750	GUGUUUUC C ACACCCUU	2289	AAGGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAACAC	17597
4751	UGUUUUC A CACCCUU	2290	AAAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAACA	17598
4753	UUUCCAC A CCCUUGG	2291	CCAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAA	17599
4755	UUCACAC C CUUUGCA	2292	UGCCAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAA	17600
4756	UCCACACC C UUUGCAU	2293	AUGCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGA	17601
4757	CCACACCC U UUGCAUA	2294	UAUGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUGG	17602
4763	CCUUGGC A UACAACAA	2295	UUGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAAGG	17603
4767	UGGCAUAC A ACAAAGG	2296	CCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGCCA	17604
4770	CAUACAAC A AAAGGAGC	2297	GCUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAUG	17605
4779	AAAGGAGC C GCUUUGAU	2298	AUCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUUU	17606
4782	GGAGCCGC U UUGADGAG	2299	CUCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGGCUC	17607
4801	GAGAGGCC C GCCUGGAC	2300	GUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUC	17608
4804	AGGGCCGC C UGGACCCA	2301	UGGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICGGCCCU	17609
4805	GGGCCGCC U GGACCAU	2302	AUGGGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCCCC	17610
4810	GCCUGGAC C CAUACUGG	2303	CCAGUAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGGC	17611
4811	CCUGGACC C AUACUGGG	2304	CCCAGUAU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAGG	17612
4812	UUGGACCC A UACUGGGG	2305	CCCAGUA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCAG	17613
4816	ACCAUAC U GGGGAGU	2306	ACUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGU	17614
4822	ACUGGGGC A GUGUCAAG	2307	CUUGACAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGU	17615
4828	GCAGUGUC A AGGAGGAU	2308	AUCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACACUGC	17616
4841	GAUCCGAC U UUGUACG	2309	CGUAACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUCC	17617
4856	CGAGGAC C CUGGAAAU	2310	AUUUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCG	17618
4857	GGAGGACC C UGGAAAUU	2311	AAUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCC	17619
4858	GAGGACCC U GGAAAUUG	2312	CAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCUC	17620
4868	GAAAUUGC A GCACAAGU	2313	ACUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUUC	17621
4871	AUUGCAGC A CAAGUGGA	2314	UCCACUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAAU	17622
4873	UGCAGCAC A AGUGGAAC	2315	GUUCCACU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGCA	17623
4886	GAACGGGC A GGAUGAGG	2316	CCUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUUC	17624
4898	UGAGGUGC A GAUGAUUG	2317	CAAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCUCA	17625
4916	GGUGGAAC C UGGCAAGA	2318	UCUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCACC	17626
4917	GUGGAACC U GGCAAGAA	2319	UUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAC	17627
4921	AACCUGCC A AGAACGUU	2320	AACGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGUU	17628
4939	AGAACGUC C AGACGAAA	2321	UUUCGUCU CUGAUGAG	GCCGUUAGGC	CGAA IACGUUCU	17629
4940	GAACGUCC A GACGAAAC	2322	GUUUCGUC CUGAUGAG	GCCGUUAGGC	CGAA IGACGUUC	17630
4949	GACGAAAC C AGGGUGU	2323	ACACCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCGUC	17631
4950	ACGAAACC A GGGUGUU	2324	AAACCCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUGU	17632
4960	GGGUGUUC A AAACACCU	2325	AGGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAACCCC	17633
4965	UUCAAAAC A CCUGAAGG	2326	CCUUCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGAA	17634
4967	CAAAACAC C UGAAGGAG	2327	CUCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUG	17635
4968	AAAACACC U GAAGGAGA	2328	UCUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUU	17636
4986	AUCGGGGC C GUGACUUU	2329	AAAGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCGAU	17637
4992	GCCGUGAC U UUGACUU	2330	AAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCACGGC	17638

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4999	CUUUGGAC U UCCCCACU	2331	AGUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAAG	17639
5002	UGGACUUC C CCACUGGA	2332	UCCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCCA	17640
5003	GGACUUC C CACUGGAA	2333	UUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUCC	17641
5004	GACUUC C ACUGGAAC	2334	GUUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGUC	17642
5005	ACUUC C CUGGAACA	2335	UGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAGU	17643
5007	UUC C CACU	2336	GAUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGAA	17644
5013	ACUGGAAC A UCAGGCUC	2337	GAGCCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGU	17645
5016	GGAACAUC A GGCUCACC	2338	GGUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUUC	17646
5020	CAUCAGGC U CACCAUA	2339	UAUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAUG	17647
5022	UCAGGCUC A CCAUAGU	2340	ACUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGA	17648
5024	AGGCUCAC C AAUAGUGG	2341	CCACUAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCU	17649
5025	GGCUCACC A AUAGUGGA	2342	UCCACUAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGCC	17650
5035	UAGUGGAC A AAAACGGU	2343	ACCGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCACUA	17651
5057	GAUUGGGC U UUAUGGCA	2344	UGCCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUC	17652
5065	UUUAUGGC A AUGGAGUC	2345	GACUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAAA	17653
5074	AUGGAGUC A UAAUGCCC	2346	GGGCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IACUCCAU	17654
5081	CAUAUUGC C CAACGGCU	2347	AGCCGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUG	17655
5082	AUAUUGCC C AACGGCUC	2348	GAGCCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUAU	17656
5083	UAAUGCCC A ACGGCUCA	2349	UGAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUA	17657
5089	CCAACGGC U CAUACUA	2350	UAUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUGG	17658
5091	AACGGCUC A UACAUAA	2351	CUUAUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGUU	17659
5095	GCUCAUAC A UAAGCGCG	2352	CGCGCUUA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAGC	17660
5111	GAUAGUGC A GGGUGAAA	2353	UUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUC	17661
5132	GGAUGAGC C AAUCCAG	2354	CUGGUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUCC	17662
5133	GAUGAGCC A AUCCAGC	2355	GCUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAUC	17663
5137	AGCCAUUC C CAGCCGGA	2356	UCCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCU	17664
5138	GCCAAUCC C AGCCGGAU	2357	AUCCGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17665
5139	CCAAUCC C GCCGGAU	2358	AAUCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGAUUG	17666
5142	AUCCAGC C GGAUUCGA	2359	UUGAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGAU	17667
5153	AUUCGAAC C UGAGAUGC	2360	GCAUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAAU	17668
5154	UUCGAACC U GAGAUGC	2361	AGCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCGAA	17669
5162	UGAGAUGC U GAGAAAA	2362	UUUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUCA	17670
5174	GAUAAAC A GAUCACUG	2363	CAGUAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	17671
5179	AACAGAUC A CUGUACUG	2364	CAGUACG CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGU	17672
5181	CAGAUCAC U GUACUGGA	2365	UCCAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCU	17673
5186	CACUGUAC U GGAUCUCC	2366	GGAGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUACAGUG	17674
5192	ACUGGAUC U CCAUCCCG	2367	CGGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAGU	17675
5194	UGGAUCUC C AUCCCGGC	2368	GCCGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGCA	17676
5195	GAUUCUC C UCCCGGC	2369	CGCCGGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUC	17677
5198	UCUCCAU C CGCGCCCG	2370	CGCGCCCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAGA	17678
5199	CUCCAUCC C GCGCCCG	2371	CCGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAG	17679
5205	CCCGCGC C GGUAAAC	2372	GUUUUACC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGGG	17680
5214	GGUAAAC A AGGAGGAU	2373	AUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUACC	17681
5225	GAGGAUC U GCCACAGA	2374	UCUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCCUC	17682
5228	GAUUCUG C ACAGAUA	2375	UGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAUC	17683
5229	AUUCUGCC A CAGAUCAU	2376	AUGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAAU	17684
5231	UCUGCCAC A GAUCAUA	2377	UGAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	17685
5236	CACAGAUC A UCAAAGAG	2378	CUCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGUG	17686
5239	AGAUAUC A AAGAGGCC	2379	GGCCUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUCU	17687
5247	AAAGAGGC C AUAAACAG	2380	CUGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUUU	17688
5248	AAGAGGCC A UAAACAGA	2381	UCUGUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCUU	17689
5254	CAUAAAC A GAAGACUG	2382	CAGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	17690
5261	CAGAAGAC U GAGAACAG	2383	CUGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCUG	17691
5268	CUGAGAAC A GCCGUGCU	2384	AGCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCAG	17692
5271	AGAACAGC C GUGCUAGC	2385	GCUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUCU	17693
5276	AGCCGUGC U AGCACCA	2386	UUGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGCU	17694
5280	GUGCUAGC A CCAACAG	2387	CUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICACGGAC	17695
5282	GCUAGCAC C AACAGGG	2388	CCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAGC	17696
5283	CUAGCAC C ACCAGGU	2389	ACCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUAG	17697
5286	GCACCAAC C AGGGUUGU	2390	ACAACCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	17698
5287	CACCAACC A GGGUUGUG	2391	CAACAACC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUG	17699
5298	GUUGUGGC U GCUAGAU	2392	AUCUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAC	17700

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5231	UCUGCCAC A GAUCAUCA	2377	UGAUGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAGA	17685
5236	CACAGAUC A UCAAAGAG	2378	CUCUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUGUG	17686
5239	AGAUAUC A AAGAGGCC	2379	GGCCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAUCU	17687
5247	AAAGAGGC C AUAAACAG	2380	CUGUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCUUU	17688
5248	AAGAGGCC A UAAACAGA	2381	UCUGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUCUU	17689
5254	CCAUAAC A GAAGACUG	2382	CAGUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUGG	17690
5261	CAGAAGAC U GAGAACAG	2383	CUGUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCUG	17691
5268	CUGAGAAC A GCCGUGCU	2384	AGCACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCAG	17692
5271	AGAACAGC C GUGCUAGC	2385	GCUAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUUCU	17693
5276	AGCCGUGC U AGCACCAA	2386	UUGGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGGCU	17694
5280	GUGCUAGC A CCAACCAG	2387	CUGGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGCAC	17695
5282	GCUAGCAC C AACCAGGG	2388	CCCUGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUAGC	17696
5283	CUAGCACC A ACCAGGGU	2389	ACCUGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCUAG	17697
5286	GCACCAAC C AGGUUGU	2390	ACAACCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGUGC	17698
5287	CACCAACC A GGGUUGUG	2391	CACAACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGGUG	17699
5298	GUUGUGGC U GCUGAGAU	2392	AUCUCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACAAC	17700
5301	GUGGUGC U GAGAUGGC	2393	GCCAUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCCAC	17701
5310	GAGAUGGC U GAAGCACU	2394	AGUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUCUC	17702
5316	GCUGAAGC A CUGAGAGG	2395	CCUCUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCAGC	17703
5318	UGAAGCAC U GAGAGGAC	2396	GUCCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUUCA	17704
5327	GAGAGGAC U GCCCAUCC	2397	GGAUGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUCUC	17705
5330	AGGACUGC C CAUCCGGU	2398	ACCGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUCCU	17706
5331	GGACUGCC C AUCCGGUA	2399	UACCGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGUCC	17707
5332	GACUGCCC A UCCGUUAC	2400	GUACCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAGUC	17708
5335	UGCCCAUC C GGUACCA	2401	CUGGUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCA	17709
5341	UCCGGUAC C AGACAUC	2402	GGAUGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACCGGA	17710
5342	CCGGUACC A GACAUCG	2403	CGGAUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAACGG	17711
5346	UACCAGAC A UCCGCAGU	2404	ACUGCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGGUA	17712
5349	CAGACAUC C GCAGUGCC	2405	GGCACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUG	17713
5352	ACAUCCGC A GUGCCCAG	2406	CUGGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAUGU	17714
5357	CGCAGUGC C CAGAGAAC	2407	GUUCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUCGC	17715
5358	GCAGUGCC C AGAGAACA	2408	UGUUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACUGC	17716
5359	CAGUGCCC A GAGAACA	2409	AUGUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCACUG	17717
5366	CAGAGAAC A UAAUGGAA	2410	UUCCAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCUG	17718
5392	UGAUGUC A UGUGUCAU	2411	AUGACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCAA	17719
5399	CAUGUGUC A UGCUACCC	2412	GGGUAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACAUG	17720
5403	UGUCAUC U ACCUCAC	2413	GUGAGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGACA	17721
5406	CAUGCUAC C CUCACCA	2414	UGGGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGCAUG	17722
5407	AUGCUACC C UCACCCAC	2415	GUGGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAUGAU	17723
5408	UGCUACCC U CACCCACA	2416	UGUGGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUAGCA	17724
5410	CUACCCUC A CCCACAGG	2417	CCUGUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGUAG	17725
5412	ACCCUCAC C CACAGGCU	2418	AGCCUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGGGU	17726
5413	CCCUCACC C ACAGGUG	2419	CAGCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAGGG	17727
5414	CCUCACCC A CAGGCUGA	2420	UCAGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGAGG	17728
5416	UCACCCAC A GGCUGAUG	2421	CAUCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGUGA	17729
5420	CCACAGGC U GAUGUCUC	2422	GAGACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGUGG	17730
5427	CUGAUGUC U CCUCACAG	2423	CUGUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCAG	17731
5429	GAUGUCUC C UCACAGGG	2424	CCCUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACAUC	17732
5430	AUGUCUCC U CACAGGGU	2425	ACCCUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGACAU	17733
5432	GUCUCUC A CAGGGUGC	2426	GCACCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGAC	17734
5434	CUCCUCAC A GGGUGCCG	2427	CGGCACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGGAG	17735
5441	CAGGGUGC C GAACUACA	2428	UGUAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCCUG	17736
5446	UGCCGAAC U ACAACCU	2429	CAGGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCGGCA	17737
5449	CGAACUAC A ACCGUUUC	2430	GAACAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUUCG	17738
5452	ACUACAAC C UGUUCGUG	2431	CACGAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUAGU	17739
5453	CUACAACC U GUUCGUGA	2432	UCACGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUAG	17740
5472	GAUGAGGC U CAUUCAC	2433	GUGAAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCAUC	17741
5474	UGAGGCUC A UUUCACCG	2434	CGUGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUCA	17742
5479	CUCAUUC A CCGACCCA	2435	UGGGUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAGAG	17743
5481	CAUUCAC C GACCCAGC	2436	GCUGGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAUUG	17744
5485	UCACCGAC C CAGCUAGC	2437	GCUAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGGUGA	17745

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5486	CACGACC C AGCUAGCA	2438	UGCUAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGUG	17746
5487	ACCGACCC A GCUAGCAU	2439	AUGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCGGU	17747
5490	GACCCAGC U AGCAUUGC	2440	GCAUAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGUC	17748
5494	CAGCUAGC A UUGCAGCA	2441	UGCUGCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCUG	17749
5499	AGCAUUGC A GCAAGAGG	2442	CCUCUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGCU	17750
5502	AUUGCAGC A AGAGGUUA	2443	UAACCUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAAU	17751
5512	GAGGUUAC A UUUCCACA	2444	UGUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUAACCUC	17752
5517	UACAUUUC C ACAAAGGU	2445	ACCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGA	17753
5518	ACAUUUCC A CAAAGGUC	2446	GACCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAAUUG	17754
5520	AUUUCCAC A AAGGUCGA	2447	UCGACCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAAU	17755
5531	GGUCGAGC U AGGGGAGG	2448	CCUCCCCU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGACC	17756
5547	GCGGCGGC A AUAUUCAU	2449	AUGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCCGC	17757
5554	CAUAUUC A UGACAGCC	2450	GGCUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUUG	17758
5559	UUCAUAGC A GCCACCCC	2451	GGGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAA	17759
5562	AUGACAGC C ACCCCACC	2452	GGUGGGGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCAU	17760
5563	UGACAGCC A CCCACCA	2453	UGGUGGGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUCA	17761
5565	ACAGCCAC C CCACAGG	2454	CCUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUGU	17762
5566	CAGCCACC C CACCAGGC	2455	GCCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCUG	17763
5567	AGCCACCC C ACCAGGCA	2456	UGCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGUGGCU	17764
5568	GCCACCCC A CCAGGCAC	2457	GUGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGGGC	17765
5570	CACCCAC C AGGCACUU	2458	AAGUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGUG	17766
5571	ACCCACCC A GGCACUUC	2459	GAGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGGGUG	17767
5575	CACCAGGC A CUUCAGAU	2460	AUCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGUG	17768
5577	CCAGGCAC U UCAGAUCC	2461	GGAUUGUA CUGAUGAG	GCCGUUAGGC	CGAA IUGCCUGG	17769
5580	GGCACUUC A GAUCCAUC	2462	AAUGGAUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGCC	17770
5585	UUCAGAU C AUUCCAG	2463	CUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGAA	17771
5586	UCAGAUCC A UUCCAGA	2464	UCUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUGA	17772
5590	AUCCAUC C CAGAGUCC	2465	GGACUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGAU	17773
5591	UCCAUUC C AGAGUCCA	2466	UGGACUCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGGA	17774
5592	CCAUUC C A GAGUCCA	2467	UUGGACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGAUUGG	17775
5598	CCAGAGUC C AAUUCACC	2468	GGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IACUCUGG	17776
5599	CAGAGUCC A AUUCACCA	2469	UGGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGACUCUG	17777
5604	UCCAUAUC A CCAUAUUC	2470	GAAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGA	17778
5606	CAAUUCAC C AAUUCUG	2471	CGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUUG	17779
5607	AAUUCACC A AUUCCGA	2472	UCGGAUUA CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAU	17780
5613	CCAUAUUC C GACUACA	2473	UGUAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGG	17781
5617	UUUCCGAC U UACAGACU	2474	AGUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGAAA	17782
5621	CGACUAC A GACUGAGA	2475	UCUCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IUAUCUGC	17783
5625	UUACAGAC U GAGAUCCC	2476	GGGAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAA	17784
5632	CUGAGAU C CGGAUCGA	2477	UCGAUCCG CUGAUGAG	GCCGUUAGGC	CGAA IAUCUCAG	17785
5633	UGAGAUCC C GGAUCGAG	2478	CUCGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUCA	17786
5643	GAUCGAGC U UGGAACUC	2479	GAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCGAUC	17787
5650	CUUGGAAC U CUGAUAC	2480	GUUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAAG	17788
5652	UGGAACUC U GGAUACGA	2481	UCGUAUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCA	17789
5668	AAUGGAUC A CAGAAUAC	2482	GUUUAUC CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAUC	17790
5670	UGGAUCAC A GAAUACAC	2483	GUGUAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCA	17791
5677	CAGAAUAC A CCGGAAG	2484	CUUCCCGG CUGAUGAG	GCCGUUAGGC	CGAA IUAUUCUG	17792
5679	GAAUACAC C GGAAGAC	2485	GUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUUC	17793
5702	GUUUGUGC C UAGUGUCA	2486	UGACACUA CUGAUGAG	GCCGUUAGGC	CGAA ICACAAAC	17794
5703	UUUGUGCC U AGUGUCA	2487	UUGACACU CUGAUGAG	GCCGUUAGGC	CGAA IGCACAAA	17795
5710	CUAGUGUC A AGAUGGGG	2488	CCCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IACACUAG	17796
5730	GAGAUUGC C CUUUGCCU	2489	AGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCUC	17797
5731	AGAUUGCC C UUUGCCUA	2490	UAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUCU	17798
5732	GAUUGCCC U UUGCCUAC	2491	GUAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAUC	17799
5737	CCCUUUGC C UACAACGU	2492	ACGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGGG	17800
5738	CCUUGCC U ACAACGUG	2493	CACGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGG	17801
5741	UUGCCUAC A ACGUCUG	2494	CAGCACGU CUGAUGAG	GCCGUUAGGC	CGAA IUAGGCAA	17802
5748	CAACGUG C GGAAGAA	2495	UUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICACGUUG	17803
5764	AAGUAGUC C AAUUGAAC	2496	GUUCAAU CUGAUGAG	GCCGUUAGGC	CGAA IACUACU	17804
5765	AGUAGUCC A AUUGAAC	2497	UGUCAAU CUGAUGAG	GCCGUUAGGC	CGAA IGACUACU	17805
5773	AAUUGAAC A GAAAGUCG	2498	CGACUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCAU	17806

5797	CGGAGUAC C CAAAUGU	2499	ACAUIUUG CUGAUGAG	GCCGUUAGGC	CGAA IUACUCCG	17807
5798	GGAGUACC C AAAUGUA	2500	UACAUIUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUACUCC	17808
5799	GAGUACCC A AAAUGUA	2501	UUACAUIU CUGAUGAG	GCCGUUAGGC	CGAA IGGUACUC	17809
5824	AUUGGGAC U UUGUUAUC	2502	GAUAACAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCCAAU	17810
5833	UUGUUAUC A CAACAGAC	2503	GUCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUAACAA	17811
5835	GUUAUCAC A ACAGACAU	2504	AUGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUAC	17812
5838	AUCACAAC A GACAUUAC	2505	GAUAUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGAU	17813
5842	CAACAGAC A UAUCUGAA	2506	UUCAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUUG	17814
5847	GACAUUAC U GAAUUGG	2507	CCCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGUC	17815
5859	AUGGGGGC U AACUCAA	2508	UUGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAU	17816
5863	GGGCUAAC U UCAAGGCG	2509	CGCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUAGCCC	17817
5866	CUAACUUC A AGGCGAGC	2510	GCUCGCTU CUGAUGAG	GCCGUUAGGC	CGAA IAGUUGAG	17818
5875	AGGCGAGC A GGGUGAUU	2511	AAUCACCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCCU	17819
5887	UGAUUGAC A GCCGGAAG	2512	CUUCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	17820
5890	UUGACAGC C GGAAGAGU	2513	ACUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCA	17821
5906	UUGAAAC C AACCAUCA	2514	UGAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCACA	17822
5907	GUGAAACC A ACCAUCAU	2515	AUGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCAC	17823
5910	AAACCAAC C AUCAUAAC	2516	GUUAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUUU	17824
5911	AACCAACC A UCAUAACA	2517	UGUUAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUU	17825
5914	CAACCAUC A UAACAGAA	2518	UUCUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUG	17826
5919	AUCAUAAC A GAAGGAGA	2519	UCUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGAU	17827
5941	GAGUGAUC C UGGGAGAA	2520	UUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUACUUC	17828
5942	AGUGAUCC U GGGAGAAC	2521	GUUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCACU	17829
5951	GGGAGAAC C AUCUGCAG	2522	GUCGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCCC	17830
5952	GGGAGAAC A UCUGCAGU	2523	ACUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUCC	17831
5955	GAACCAUC U GCAGUGAC	2524	GUCACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUC	17832
5958	CCAUCUGC A GUGACAGC	2525	GCUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUG	17833
5964	GCAGUGAC A GCAGCUAG	2526	CUAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGC	17834
5967	GUGACAGC A GCUAGUGC	2527	GCACUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCAC	17835
5970	ACAGCAGC U AGUGCCGC	2528	GCGGCACU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGU	17836
5976	CUAGUGC C GCCCAGAG	2529	CUCUGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAGC	17837
5979	AGUGCCGC C CAGAGACG	2530	CGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGCACU	17838
5980	GUGCCGCC C AGAGACGU	2531	ACGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAC	17839
5981	UGCCGCC C AGAGACGU	2532	CACGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCGCA	17840
6008	UAGAAUUC C GUCGCAAG	2533	CUUGCGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUCUA	17841
6014	UCCGUCGC A AGUUGGUG	2534	CACCAACU CUGAUGAG	GCCGUUAGGC	CGAA ICGACGGA	17842
6031	AUGAGUAC U GUUAUGGG	2535	CCCAUAAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUCAU	17843
6044	UGGGGGC A CACGAUUG	2536	CAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCCA	17844
6046	GGGGGCAC A CGAAUGAA	2537	UUAUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCC	17845
6061	AAGACGAC U CGAACUUC	2538	GAAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUU	17846
6067	ACUCGAAC U UCGCCAU	2539	AUGGGCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGU	17847
6072	AACUUCGC C CAUUGGAC	2540	GUCCAAUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGUU	17848
6073	ACUUCGCC C AUUGGACU	2541	AGUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGU	17849
6074	CUUCGCC C AUUGGACU	2542	CAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGGCGAAG	17850
6081	CAUUGGAC U GAGGCAG	2543	CGUGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAUG	17851
6087	ACUGAGGC A CGAAUCAU	2544	AUGAUCG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAGU	17852
6094	CACGAUUC A UGCUGGAC	2545	GUCCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCGUG	17853
6098	AAUCAUGC U GGACAACA	2546	UGUUGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAUU	17854
6103	UGCUGGAC A ACAUCAAC	2547	GUUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGCA	17855
6106	UGGACAAC A UCAACAUG	2548	CAUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCCA	17856
6109	ACAACAUC A ACAUGCCA	2549	UGGCAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGU	17857
6112	ACAUCAAC A UGCCAAC	2550	GUUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	17858
6116	CAACAUUC C AACCGGAC	2551	GUCCGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUUG	17859
6117	AACAUGCC A AACGGACU	2552	AGUCCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUUG	17860
6125	AAACGGAC U GAUCGCUC	2553	GAGCGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCGUUU	17861
6132	CUGAUCGC U CAAUUCUA	2554	UAGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCAG	17862
6134	GAUCGCUC A AUUCUACC	2555	GGUAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAUC	17863
6139	CUCAAUUC U ACCAACCA	2556	UGGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAG	17864
6142	AAUUCUAC C AACCAGAG	2557	CUCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGAAUU	17865
6143	AUUCUACC A ACCAGAGC	2558	GCUCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGAAU	17866
6146	CUACCAAC C AGAGCGUG	2559	CACGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUAG	17867

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6147	UACCAACC A GAGCGUGA	2560	UCACGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUA	17868
6168	GUUAUAC C AUGGAUGG	2561	CCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUAC	17869
6169	UAUAUACC A UGGAUGGG	2562	CCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUAUA	17870
6184	GGGAUAC C GGCUCAGA	2563	UCUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCCC	17871
6188	AUACCGGC U CAGAGGAG	2564	CUCCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGGUAU	17872
6190	ACCGGCUC A GAGGAGAA	2565	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGGU	17873
6211	GAAAAAAC U UUCUGGAA	2566	UUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	17874
6215	AAACUUUC U GGAACUGU	2567	ACAGUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUUU	17875
6221	UCUGGAAC U GUUGAGGA	2568	UCCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGA	17876
6231	UUGAGGAC U GCAGAUUC	2569	AGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCA	17877
6234	AGGACUGC A GAUCUGCC	2570	GGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCCU	17878
6239	UGCAGAU C GCCAGUUU	2571	AAACUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCGCA	17879
6242	AGAUCUGC C AGUUUGGC	2572	GCCAAACU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUC	17880
6243	GAUCUGCC A GUUUGGCU	2573	AGCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUC	17881
6251	AGUUUGGC U GGCUUAUA	2574	UGUAAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAACU	17882
6255	UGGCUUGC U UACAAGGU	2575	ACCUUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGCCA	17883
6259	UGGCUUAC A AGGUUGCA	2576	UGCAACUC CUGAUGAG	GCCGUUAGGC	CGAA IUAAGCCA	17884
6267	AAGGUUGC A CGGGCUGG	2577	CCAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICAACCUU	17885
6273	GCAGCGGC U GGAGUGUC	2578	GACACUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUCG	17886
6282	GGAGUGUC A UACCACGA	2579	UCGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IACACUCC	17887
6286	UGUCAUAC C ACGACCGG	2580	CCGGUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGACA	17888
6287	GUCAUACC A CGACCGGA	2581	UCCGGUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGAC	17889
6292	ACCACGAC C GGAGGUGG	2582	CCACCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGGU	17890
6304	GGUGGUGC U UUGAUGGU	2583	ACCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICACCACC	17891
6314	UGAUGGUC C UAGGACAA	2584	UUGUCCUA CUGAUGAG	GCCGUUAGGC	CGAA IACCAUCA	17892
6315	GAUGGUCC U AGGACAAA	2585	UUUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACCAUC	17893
6321	CCUAGGAC A AACACAAU	2586	AUUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAGG	17894
6325	GGACAAAC A CAUUUUA	2587	UAAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUCC	17895
6327	ACAAACAC A AUUUUAGA	2588	UCUAAAUA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUGU	17896
6340	UAGAAGAC A ACAACGAA	2589	UUCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUA	17897
6343	AAGACAAC A ACGAAGUG	2590	CACUUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCUU	17898
6358	UGGAAGUC A UCACGAAG	2591	CUUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA IACUCCA	17899
6361	AAGUCAUC A CGAAGCUU	2592	AAGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCUU	17900
6368	CACGAAGC U UGGUGAAA	2593	UUUCACCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17901
6386	GAAGAUUC U GAGGCCGC	2594	GCGGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUUC	17902
6392	UCUGAGGC C GCGUGGA	2595	UCCAGCGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAGA	17903
6397	GGCCGCGC U GGAUUGAC	2596	GUCAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGCGGCC	17904
6408	AUUGACGC C AGGGUGUA	2597	UACACCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCAAU	17905
6409	UUGACGCC A GGGUGUAC	2598	GUACACCC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCAAU	17906
6418	GGGUGUAC U CGGAUCAC	2599	UGGAUCCG CUGAUGAG	GCCGUUAGGC	CGAA IUACACCC	17907
6425	CUCGGAUC A CCAGGCAC	2600	GUGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGAG	17908
6427	CGGAUCAC C AGGCACUA	2601	UAGUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCG	17909
6428	GGAUACAC A GGCACUAA	2602	UUAGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGAUCC	17910
6432	CACCAGGC A CUAAAGGC	2603	GCCUUUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGUG	17911
6434	CCAGGCAC U AAAGGCGU	2604	ACGCCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCUGG	17912
6445	AGGCGUUC A AGGACUUC	2605	GAAGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCCU	17913
6451	UCAAGGAC U UCGCCUCG	2606	CGAGGCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUGA	17914
6456	GACUUCGC C UCGGAAA	2607	UUUCCCGA CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGUC	17915
6457	ACUUCGCC U CGGGAAA	2608	UUUCCCG CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGUC	17916
6471	AAACGUUC U CAGAUAGG	2609	CCUAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUUU	17917
6473	ACGUUCUC A GAUAGGGC	2610	GCCCUAUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCU	17918
6482	GAUAGGGC U CAUUGAGG	2611	CCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCUAUC	17919
6484	UAGGGCUC A UUGAGGUU	2612	AACCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCUA	17920
6494	UGAGGUUC U GGGAAAGA	2613	UCUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IAAACUCA	17921
6506	AAAGAUGC C UGAGCACU	2614	AGUGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUUU	17922
6507	AAGAUGCC U GAGCACUU	2615	AAGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUUU	17923
6512	GCCUGAGC A CUUCAUGG	2616	CCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGGC	17924
6514	CUGAGCAC U UCAUGGGG	2617	CCCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCAG	17925
6517	AGCACUUC A UGGGGAAG	2618	CUUCCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCU	17926
6528	GGGAAGAC A UGGGAAGC	2619	GCUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCCC	17927
6537	UGGGAAGC A CUUGACAC	2620	GUGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCCA	17928

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6539	GGAAGCAC U UGACACCA	2621	UGGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUCC	17929
6544	CACUUGAC A CCAUGUAC	2622	GUACAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGUG	17930
6546	CUUGACAC C AUGUACGU	2623	ACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAG	17931
6547	UUGACACC A UGUACGUU	2624	AACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAA	17932
6561	GUUGUGGC C ACUGCAGA	2625	UCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAC	17933
6562	UUGUGGCC A CUGCAGAG	2626	CUCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACAA	17934
6564	GUGGCCAC U GCAGAGAA	2627	UUCUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAC	17935
6567	GCCACUGC A GAGAAAGG	2628	CCUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGC	17936
6585	GGAAGAGC U CACAGAAU	2629	AUUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCC	17937
6587	AAGAGCUC A CAGAAUGG	2630	CCAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCU	17938
6589	GAGCUCAC A GAAUGGCC	2631	GGCCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCUC	17939
6597	AGAAUGGC C CUGGAGGA	2632	UCCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUCU	17940
6598	GAAUGGCC C UGGAGGAA	2633	UUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUUC	17941
6599	AAUGGCC C UGAGGAAC	2634	GUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUC	17942
6608	GGAGGAAC U GCCAGAUG	2635	CACUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCC	17943
6611	GGAACUGC C AGAUGCUC	2636	GAGCAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCC	17944
6612	GAACUGCC A GAUGCUCU	2637	AGAGCAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUC	17945
6618	CCAGAUGC U CUUCAGAC	2638	GUCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUGG	17946
6620	AGAUGCUC U UCAGACAA	2639	UUGUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUCU	17947
6623	UGCUCUUC A GACAAUUG	2640	CAAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGCA	17948
6627	CUUCAGAC A AUUGCCUU	2641	AAGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAAG	17949
6633	ACAAUUGC C UUGAUUGC	2642	GCAAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUGU	17950
6634	CAAUUGCC U UGAUUGCC	2643	GGCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUUG	17951
6642	UUGAUUGC C UUAUUGAG	2644	CUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCAA	17952
6643	UGAUUGCC U UAUUGAGU	2645	ACUCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUCA	17953
6660	GUGAUGAC C AUGGAGU	2646	ACUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCAC	17954
6661	UGAUGACC A UGGAGUA	2647	UACUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUCA	17955
6673	GAGUAUUC U UCCUCCUC	2648	GAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUACUC	17956
6676	UAUUCUUC C UCCUCAUG	2649	CAUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUA	17957
6677	AUUCUUC C UCCUCAUG	2650	GCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAU	17958
6679	UCUUCUUC C UCAUGCAG	2651	CUGCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGA	17959
6680	CUUCUUC C CAUGCAGC	2652	GCUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAG	17960
6682	UCCUCCUC A UGCAGCGG	2653	CCGUGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGA	17961
6686	CCUCAUGC A GCGGAAGG	2654	CCUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAGG	17962
6697	GGAAGGGC A UUGGAAAG	2655	CUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCU	17963
6723	GGAGGCG C UGCUUGGG	2656	CCCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCUC	17964
6727	GCGCUGUC U UGGAGUC	2657	GACUCCA CUGAUGAG	GCCGUUAGGC	CGAA IACAGCGC	17965
6741	GUCGCGAC C UUUUCUG	2658	CAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA IACGCGAC	17966
6742	UCGCGACC U UUUUCUGU	2659	ACAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGCGA	17967
6748	CCUUUUC U GUUGGAUG	2660	CAUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGG	17968
6759	UGGAUGGC U GAAGUUC	2661	GGAACUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCCA	17969
6767	UGAAGUUC C AGGAACGA	2662	UCGUUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACUUCA	17970
6768	GAAGUUC C GGAACGAA	2663	UUCGUUCC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUC	17971
6783	AAGAUCGC C GGAAUGUU	2664	AACAUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUUC	17972
6794	AAUGUUGC U GCUCUCC	2665	GGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAACAUU	17973
6797	GUUGCUGC U CUCCUUC	2666	GAAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAAC	17974
6799	UGCUGCUC U CUCUUCUC	2667	GAGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGCA	17975
6801	CUGCUCUC C CUUCUCU	2668	AAGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCAG	17976
6802	UGCUUCC C UUCUCUUG	2669	CAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGCA	17977
6803	GCUCUCC U UCUCUUGA	2670	UCAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGC	17978
6806	CUCCUUC U CUUGAUGA	2671	UCAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAG	17979
6808	CCUUCUC U UGAUGAUU	2672	AAUCAUA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGG	17980
6821	GAUUGUGC U AAUUCUG	2673	CAGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICACAUUC	17981
6827	GUAAUUC C UGAGCCAG	2674	CUGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGC	17982
6828	CUAAUUC U GAGCCAGA	2675	UCUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAUUG	17983
6833	UCCUGAGC C AGAGAAGC	2676	GCUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGGA	17984
6834	CCUGAGCC A GAGAAGCA	2677	UGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAGG	17985
6842	AGAGAAGC A ACGUUCGC	2678	GCGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCU	17986
6851	ACGUUCGC A GACAGACA	2679	UGUCUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAACGU	17987
6855	UCGAGAC A GACAACCA	2680	UGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCGA	17988
6859	AGACAGAC A ACCAGCUA	2681	UAGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUCU	17989

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6862	CAGACAAC C AGCUAGCC	2682	GGCUAGCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCUG	17990
6863	AGACAACC A GCUAGCCG	2683	CGGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCUC	17991
6866	CAACCAGC U AGCCGUGU	2684	ACACGGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUUG	17992
6870	CAGCUAGC C GUGUCCU	2685	AGGAACAC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCUG	17993
6877	CCGUGUUC C UGAUUUGU	2686	ACAAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IAACACGG	17994
6878	CGUGUCC U GAUUUGUG	2687	CACAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACACG	17995
6889	UUUGUGUC A UGACCCUU	2688	AAGGUCU CUGAUGAG	GCCGUUAGGC	CGAA IACACAAA	17996
6894	GUCAUGAC C CUUGUGAG	2689	CUCACAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAC	17997
6895	UCAUGACC C UUGUGAGC	2690	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUAUGA	17998
6896	CAUGACCC U UGUGAGCG	2691	CGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAUG	17999
6906	GUGAGCGC A GUGGCAGC	2692	GCUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCAC	18000
6912	GCAGUGGC A GCCAACGA	2693	UCGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGC	18001
6915	GUGGCAGC C AACGAGAU	2694	AUCUCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAC	18002
6916	UGGCAGCC A ACGAGAUG	2695	CAUCUCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCCA	18003
6932	GGGUUGGC U AGAUAAGA	2696	UCUUAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAACC	18004
6942	GAUAAGAC C AAGAGUGA	2697	UCACUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUUAUC	18005
6943	AUAAGACC A AGAGUGAC	2698	GUCACUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUAU	18006
6952	AGAGUGAC A UAAGCAGU	2699	ACUGCUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUCU	18007
6958	ACAUAAGC A GUUUGUUU	2700	AAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUAUGU	18008
6971	GUUUGGC A AAGAAUUG	2701	CAAUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAAC	18009
6985	UUGAGGUC A AGGAGAAU	2702	AUUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	18010
6997	AGAAUUUC A GCAUGGGA	2703	UCCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUCU	18011
7000	AUUUCAGC A UGGGAGAG	2704	CUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAAU	18012
7013	AGAGUUUC U UUUGACU	2705	AGUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUCU	18013
7021	UUUUGGAC U UGAGGCCG	2706	CGGCCUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAAA	18014
7028	CUUGAGGC C GGCAACAG	2707	CUGUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAAG	18015
7032	AGGCCGGC A ACAGCCUG	2708	CAGGCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCCU	18016
7035	CCGGCAAC A GCCUGGUC	2709	GACCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCGG	18017
7038	GCAACAGC C UGGUCACU	2710	AGUGACCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGC	18018
7039	CAACAGCC U GGUACUG	2711	CAGUGACC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUUG	18019
7044	GCCUGGUC A CUGUACGC	2712	GCGUACAG CUGAUGAG	GCCGUUAGGC	CGAA IACCAGC	18020
7046	CUGGUCAC U GUACGUG	2713	CAGCGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGACCAG	18021
7053	CUGUACGC U GUGACAAC	2714	GUUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUACAG	18022
7059	GCUGUGAC A ACAGCGGU	2715	ACCGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCACAGC	18023
7062	GUGACAAC A GCGGUCCU	2716	AGGACCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAC	18024
7069	CAGCGGUC C UCACUCCA	2717	UGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACCGCUG	18025
7070	AGCGGUCC U CACUCCAC	2718	GUGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IGACCGCU	18026
7072	CGGUCCUC A CUCCACUG	2719	CAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAC	18028
7074	GUCCUCAC U CCACUGCU	2720	AGCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAGG	18029
7076	CCUCACUC C ACUGCUAA	2721	UUAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAG	18030
7077	CUCACUCC A CUGCUAAA	2722	UUUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUG	18031
7079	CACUCCAC U GCUAAAGC	2723	GCUUUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGGA	18032
7082	UCCACUGC U AAAGCAUU	2724	AAUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUUAGC	18033
7088	GCUAAAGC A UUUGAUCA	2725	UGAUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAAU	18034
7096	AUUUGAUC A CGUCAGAU	2726	AUCUGAGC CUGAUGAG	GCCGUUAGGC	CGAA IACGUGAU	18035
7101	AUCAGGUC A GAUUAU	2727	AUGUAAUC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCUG	18036
7108	CAGAUUAC A UCAACACC	2728	GGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAU	18037
7111	AUUACAUC A ACACCUCA	2729	UGAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	18038
7114	ACAUCAAC A CCUCAUUG	2730	CAUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGAU	18039
7116	AUCAACAC C UCAUUGAC	2731	GUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGA	18040
7117	UCAACACC U CAUUGACC	2732	GGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGU	18041
7119	AACACCUC A UUGACCUC	2733	GAGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGA	18042
7125	UCAUUGAC C UCAUAAA	2734	UUUAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUG	18043
7126	CAUUGACC U CAUAAAC	2735	GUUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAA	18044
7128	UUGACCUC A AUAAACGU	2736	ACGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUUU	18045
7139	AAACGUUC A GGCAAGUG	2737	CACUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAAC	18046
7143	GUUCAGGC A AGUGCACU	2738	AGUGCACU CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGC	18047
7149	GCAAGUGC A CUUUCAC	2739	GUGAAUAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCACU	18048
7151	AAGUGCAC U AUUCACAC	2740	GUGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGUG	18049
7156	CACUAUUC A CACUCGCG	2741	CGCGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUAG	18050
7158	CUUUCAC A CUCGCGCG	2742	CGCGGAG CUGAUGAG	GCCGUUAGGC		

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7160	AUUCACAC U CGCGCGAG	2743	CUCGCGCG CUGAUGAG GCCGUUAGGC	CGAA IUGUGAAU	18051
7171	CGCGAGGC U UCCCCUUC	2744	GAAGGGGA CUGAUGAG GCCGUUAGGC	CGAA ICCUCGCG	18052
7174	GAGGCUUC C CCUUCGUC	2745	GACGAAGG CUGAUGAG GCCGUUAGGC	CGAA IAAGCCUC	18053
7175	AGGCUUCC C CUUCGUCG	2746	CGACGAAG CUGAUGAG GCCGUUAGGC	CGAA IGAAGCCU	18054
7176	GGCUUCCC C UUCGUCCA	2747	UCGACGAA CUGAUGAG GCCGUUAGGC	CGAA IGGAAGCC	18055
7177	GCUUCCCC U UCGUCGAU	2748	AUCGACGA CUGAUGAG GCCGUUAGGC	CGAA IGGGAAGC	18056
7200	GUGUCGGC U CUCCUGCU	2749	AGCAGGAG CUGAUGAG GCCGUUAGGC	CGAA ICCGACAC	18057
7202	GUCGGCUC U CCUGCUAG	2750	CUAGCAGG CUGAUGAG GCCGUUAGGC	CGAA IAGCCGAC	18058
7204	CGGCUCUC C UGCUAGCA	2751	UGCUGAGA CUGAUGAG GCCGUUAGGC	CGAA IAGAGCCG	18059
7205	GGCUCUCC U GCUAGCAG	2752	CUGCUAGC CUGAUGAG GCCGUUAGGC	CGAA IGAGAGCC	18060
7208	UCUCCUGC U AGCAGCCG	2753	CGGCUGCU CUGAUGAG GCCGUUAGGC	CGAA ICAGGAGA	18061
7212	CUGCUAGC A GCGGAUG	2754	CAUCCGGC CUGAUGAG GCCGUUAGGC	CGAA ICUAGCAG	18062
7215	CUAGCAGC C GGAUGCUG	2755	CAGCAUCC CUGAUGAG GCCGUUAGGC	CGAA ICUGCUAG	18063
7222	CCGGAUGC U GGGGACAA	2756	UUGUCCCC CUGAUGAG GCCGUUAGGC	CGAA ICAUCCGG	18064
7229	CUGGGGAC A AGUCACCC	2757	GGGUGACU CUGAUGAG GCCGUUAGGC	CGAA IUCCCCAG	18065
7234	GACAAAGC A CCCUACCC	2758	GGUGAGGG CUGAUGAG GCCGUUAGGC	CGAA IACUUGUC	18066
7236	CAAGUCAC C CUCACCGU	2759	ACGUGAGG CUGAUGAG GCCGUUAGGC	CGAA IUGACUUG	18067
7237	AAGUCACC C UCACCGUU	2760	AACCGUGA CUGAUGAG GCCGUUAGGC	CGAA IGUGACUU	18068
7238	AGUCACCC U CACCGUUA	2761	UAACGGUG CUGAUGAG GCCGUUAGGC	CGAA IGGUGACU	18069
7240	UCACCCUC A CCGUACG	2762	CGUACGG CUGAUGAG GCCGUUAGGC	CGAA IAGGGUGA	18070
7242	ACCCUCAC C GUUACGGU	2763	ACCGUAAC CUGAUGAG GCCGUUAGGC	CGAA IUGAGGGU	18071
7254	ACGGUAAC A GCGCAAC	2764	GUUGCCGC CUGAUGAG GCCGUUAGGC	CGAA IUUACCGU	18072
7260	ACAGCGGC A ACACUCCU	2765	AGGAGUGU CUGAUGAG GCCGUUAGGC	CGAA ICCGCGU	18073
7263	GCGGCAAC A CUCCUUUU	2766	AAAAGGAG CUGAUGAG GCCGUUAGGC	CGAA IUUGCCGC	18074
7265	GGCAACAC U CCUUUUUU	2767	AAAAAGG CUGAUGAG GCCGUUAGGC	CGAA IUGUUGCC	18075
7267	CAACACUC C UUUUUUGC	2768	GCAAAAAA CUGAUGAG GCCGUUAGGC	CGAA IAGUUGU	18076
7268	AACACUCC U UUUUUGCC	2769	GGCAAAAA CUGAUGAG GCCGUUAGGC	CGAA IGAGUGUU	18077
7276	UUUUUUGC C ACUAUGCC	2770	GGCAUAGU CUGAUGAG GCCGUUAGGC	CGAA ICAAAAAA	18078
7277	UUUUUGCC A CUAUGCCU	2771	AGGCAUAG CUGAUGAG GCCGUUAGGC	CGAA IGCAAAAA	18079
7279	UUUGCCAC U AUGCUAC	2772	GUAGGCAU CUGAUGAG GCCGUUAGGC	CGAA IUGGCAAA	18080
7284	CACUAUGC C UACAUGGU	2773	ACCAUGUA CUGAUGAG GCCGUUAGGC	CGAA ICAUAGU	18081
7285	ACUAUGCC U ACAUGGUU	2774	AACCAUGU CUGAUGAG GCCGUUAGGC	CGAA IUGAUGU	18082
7288	AUGCCUAC A UGUUCCC	2775	GGGAACCA CUGAUGAG GCCGUUAGGC	CGAA IUAGGCAU	18083
7295	CAUGGUUC C CGUUGGC	2776	GCCAACCG CUGAUGAG GCCGUUAGGC	CGAA IAACCAUG	18084
7296	AUGGUUCC C GGUUGGCA	2777	UGCCAACC CUGAUGAG GCCGUUAGGC	CGAA IGAACCAU	18085
7304	CGGUUGGC A AGCUGAGG	2778	CCUCAGCU CUGAUGAG GCCGUUAGGC	CGAA ICCAACCG	18086
7308	UGGCAAGC U GAGGCAU	2779	AUUGCCUC CUGAUGAG GCCGUUAGGC	CGAA ICUGCCA	18087
7314	GCUGAGGC A AUGCGCUC	2780	GAGCGCAU CUGAUGAG GCCGUUAGGC	CGAA ICCUCAGC	18088
7321	CAUUGCGC U CAGCCCAG	2781	CUGGGCUG CUGAUGAG GCCGUUAGGC	CGAA ICGCAUUG	18089
7323	AUGCGCUC A GCCCAGCG	2782	CGCUGGGC CUGAUGAG GCCGUUAGGC	CGAA IAGCGCAU	18090
7326	CGCUCAGC C CAGCGGCG	2783	CGCCGCG CUGAUGAG GCCGUUAGGC	CGAA ICUGAGCG	18091
7327	GCUCAGCC C AGCGGCGG	2784	CGCGCGCU CUGAUGAG GCCGUUAGGC	CGAA IGCUGAGC	18092
7328	CUCAGCCC A GCGGCGGA	2785	UCCGCCGC CUGAUGAG GCCGUUAGGC	CGAA IGGCUGAG	18093
7338	CGGCGGAC A GCGGCGG	2786	CCGGCCGC CUGAUGAG GCCGUUAGGC	CGAA IUCCGCCG	18094
7344	ACAGCGGC C GGAUACAU	2787	AUGAUUCC CUGAUGAG GCCGUUAGGC	CGAA ICCGCGU	18095
7351	CCGGAUUC A UGAAGAAC	2788	GUUCUUA CUGAUGAG GCCGUUAGGC	CGAA IAUUCCGG	18096
7362	AAGAAGCG U GUAGUGGA	2789	UCCACUAC CUGAUGAG GCCGUUAGGC	CGAA ICGUUCU	18097
7375	UGGAUGGC A UCGUGGCC	2790	GGCCACGA CUGAUGAG GCCGUUAGGC	CGAA ICCAUCCA	18098
7383	AUCGUGGC C ACGGACGU	2791	ACGUCCGU CUGAUGAG GCCGUUAGGC	CGAA ICCACGAU	18099
7384	UCGUGGCC A CGGACGUC	2792	GACGUCCG CUGAUGAG GCCGUUAGGC	CGAA IGCCACGA	18100
7393	CGGACGUC C CAGAAUUA	2793	UAAUUCUG CUGAUGAG GCCGUUAGGC	CGAA IACGUCCG	18101
7394	GGACGUCC C AGAAUUAU	2794	CUAAUUCU CUGAUGAG GCCGUUAGGC	CGAA IGACGUCC	18102
7395	GACGUCCC A GAAUUAUA	2795	UCUAAUUC CUGAUGAG GCCGUUAGGC	CGAA IGGACGUC	18103
7408	UAGAGCGC A CCACACCC	2796	GGGUGUGG CUGAUGAG GCCGUUAGGC	CGAA ICGUCUA	18104
7410	GAGCGCAC C ACACCAU	2797	AUGGGUGU CUGAUGAG GCCGUUAGGC	CGAA IUGCGCUC	18105
7411	AGCGCAC C ACACCAU	2798	GAUGGGUG CUGAUGAG GCCGUUAGGC	CGAA IUGGCGCU	18106
7413	CGCACAC C CCAUACAU	2799	AUGAUGGG CUGAUGAG GCCGUUAGGC	CGAA IUGGUGCG	18107
7415	CACCACAC C CAUACUGC	2800	GCAUGAUG CUGAUGAG GCCGUUAGGC	CGAA IUGUGGUG	18108
7416	ACCACACC C AUCAUGCA	2801	UGCAUGAU CUGAUGAG GCCGUUAGGC	CGAA IGUGUGGU	18109
7417	CCACACCC A UCAUGCAG	2802	CUGCAUGA CUGAUGAG GCCGUUAGGC	CGAA IGGUGUGG	18110
7420	CACCAUUC A UGCAGAAG	2803	CUUCUGCA CUGAUGAG GCCGUUAGGC	CGAA IAUUGGUG	18111

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7424	CAUCAUGC A GAAGAAAG	2804	CUUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAUG	18112
7439	AGUUGGAC A GAUCAUGC	2805	GCAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAACU	18113
7444	GACAGAUC A UGCUGAUC	2806	GAUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGUC	18114
7448	GAUCAUGC U GAUCUUGG	2807	CCAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAUC	18115
7453	UGCUGAUC U UGGUGUCU	2808	AGACACCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAGCA	18116
7461	UUGGUGUC U CUAGCUGC	2809	GCAGCUAG CUGAUGAG	GCCGUUAGGC	CGAA IACACCAA	18117
7463	GGUGUCUC U AGCUGCAG	2810	CUGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGACACC	18118
7467	UCUCUAGC U GCAGUAGU	2811	ACUACUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGAGA	18119
7470	CUAGCUGC A GUAGUAGU	2812	ACUACUAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUAG	18120
7483	UAGUGAAC C CGUCUGUG	2813	CACAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCACUA	18121
7484	AGUGAACCC C GUCUGUGA	2814	UCACAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCACU	18122
7488	AACCCGUC U GUGAAGAC	2815	GUCUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACGGGUU	18123
7497	GUGAAGAC A GUACGAGA	2816	UCUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUAC	18124
7509	CGAGAACG C GGAAUUUU	2817	AAAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCG	18125
7522	UUUGAUC A CGGCCGCA	2818	UGCGGCCG CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAAA	18126
7527	AUCACGGC C GCAGCGGU	2819	ACCGCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAU	18127
7530	ACGGCCGC A GCGGUGAC	2820	GUCACCGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCCGU	18128
7541	GGUGACGC U UUGGGAGA	2821	UUCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGUACCC	18129
7557	AAUGGAGC A AGCUCUGU	2822	ACAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAUC	18130
7561	GAGCAAGC U CUGUUUGG	2823	CCAAACAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGCUC	18131
7563	GCAAGCUC U GUUUGGAA	2824	UUCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUGC	18132
7575	UGGAACGC A ACAUCUGC	2825	GCAGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCCA	18133
7578	AACGCAAC A ACUGCCAU	2826	AUGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGCGUU	18134
7581	GCAACAAC U GCCAUCGG	2827	CCGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUGC	18135
7584	ACAACUGC C AUCGACU	2828	AGUCCGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGU	18136
7585	CAACUGCC A UCGGACUC	2829	GAGUCCGA CUGAUGAG	GCCGUUAGGC	CGAA ICGAGUUG	18137
7592	CAUCGGAC U CUGCCACA	2830	UGUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGAUG	18138
7594	UCGGACUC U GCCACAUC	2831	GAUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCGA	18139
7597	GACUCUGC C ACAUCAUG	2832	CAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGUC	18140
7598	ACUCUGCC A CAUCAUGC	2833	GCAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGU	18141
7600	UCUGCCAC A UCAUGCGU	2834	ACGCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	18142
7603	GCCACAUC A UGCGUGGG	2835	CCCACGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUGUGGC	18143
7623	UGGUUGUC A UGUCUAUC	2836	GAUAGACA CUGAUGAG	GCCGUUAGGC	CGAA IACAACCA	18144
7628	GUCAUGUC U AUCCAUA	2837	UUAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAAGAC	18145
7632	UGUCUAUC C AUAACAUG	2838	CAUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGACA	18146
7633	GUCUAUCC A UAACAUGG	2839	CCAUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAC	18147
7638	UCCAUAAC A UGGACACU	2840	AGUGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGA	18148
7644	ACAUGGAC A CUCAUAAA	2841	UUUAUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUGU	18149
7646	AUGGACAC U CAUAAGA	2842	UCUUUAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCA	18150
7648	GGACACUC A UAAAGAAC	2843	GUUCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCC	18151
7657	UAAAGAAC A UGGAAAAA	2844	UUUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUUA	18152
7667	GGAAAAAC C AGGACUAA	2845	UUAGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUCC	18153
7668	GAAAAACC A GGACUAAA	2846	UUUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUUC	18154
7673	ACCAGGAC U AAAAAGAG	2847	CUCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGGU	18155
7689	GGUGGGGC A AAAGGACG	2848	CGUCCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCCACC	18156
7699	AAGGACGC A CCUUGGGA	2849	UCCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGUCCU	18157
7701	GGACGCAC C UUGGGAGA	2850	UCUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCGUCC	18158
7702	GACGCACC U UGGGAGAG	2851	CUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCGUC	18159
7727	AGAAAGAC U CAACCAGA	2852	UCUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUUCU	18160
7729	AAAGACUC A ACCAGAUG	2853	CAUCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUUU	18161
7732	GACUCAAC C AGAUGACA	2854	UGUCAUCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGUC	18162
7733	ACUCAACC A GAUGACAA	2855	UUGUCAUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGU	18163
7740	CAGAUGAC A AAAGAAGA	2856	UCUUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCUG	18164
7753	AAGAGUUC A CUAGGUAC	2857	GUACCUAG CUGAUGAG	GCCGUUAGGC	CGAA IAACUCU	18165
7755	GAGUUCAC U AGGUACCG	2858	CGGUACCU CUGAUGAG	GCCGUUAGGC	CGAA IUAGACUC	18166
7762	CUAGGUAC C GCAAAGAG	2859	CUCUUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUACCUAG	18167
7765	GUUACCGC A AAGAGGCC	2860	GGCCUCUU CUGAUGAG	GCCGUUAGGC	CGAA ICGGUACC	18168
7773	AAAGAGGC C AUCAUCGA	2861	UCGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUUU	18169
7774	AAGAGGCC A UCAUCGAA	2862	UUCGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCUU	18170
7777	AGGCCAUC A UCGAAGUC	2863	GACUUCGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCCU	18171
7792	UCGAUCGC U CAGCGGCA	2864	UGCCCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCGA	18172

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7794	GAUCGCUC A GCGGCAAA	2865	UUUGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAUC	18173
7800	UCAGCGGC A AAACACGC	2866	GCGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCGCUGA	18174
7805	GGCAAAAC A CGCCAGGA	2867	UCCUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGCC	18175
7809	AAACACGC C AGGAAAGA	2868	UCUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUU	18176
7810	AACACGCC A GGAAGAA	2869	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUU	18177
7822	AAGAAGGC A AUGUCACU	2870	AGUGACAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCUU	18178
7828	GCAUUGUC A CUGGAGGG	2871	CCCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUUGC	18179
7830	AAUGUCAC U GGAGGGCA	2872	UGCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUT	18180
7838	UGGAGGGC A UCCAGUCU	2873	AGACUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCCA	18181
7841	AGGGCAUC C AGUCUCUA	2874	UAGAGACU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCCU	18182
7842	GGGCAUCC A GUCUCUAG	2875	CUAGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCCC	18183
7846	AUCCAGUC U CUAGGGGC	2876	GCCCUAG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGAU	18184
7848	CCAGUCUC U AGGGGCAC	2877	GUGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGACUGG	18185
7855	CUAGGGGC A CAGCAAAA	2878	UUUUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUAG	18186
7857	AGGGGCAC A GCAAAACU	2879	AGUUUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCUU	18187
7860	GGCAGAC A AAACUGAG	2880	CUCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGCC	18188
7865	AGCAAAAC U GAGAUGGC	2881	GCCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGCU	18189
7874	GAGAUGGC U GGUCGAAC	2882	GUUCGACC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCUC	18190
7892	GAGGUUUC U CGAACCGG	2883	CCGGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAAACCUC	18191
7898	UCUCGAAC C GGUCGGAA	2884	UUCCGACC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGA	18192
7918	UGAUUGAC C UUGGAUGU	2885	ACAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	18193
7919	GAUUGACC U UGGAUGUG	2886	CACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUUC	18194
7948	GGUGUUAC U AUAUGGCA	2887	UGCCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IUAACACC	18195
7956	UAUAUGGC A ACCCAAAA	2888	UUUUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUAUA	18196
7959	AUGGCAAC C CAAAAAAG	2889	CUUUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCAU	18197
7960	UGGCAACC C AAAAAAGA	2890	UCUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGCCA	18198
7961	GGCAACCC A AAAAGAG	2891	CUCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGCC	18199
7972	AAAGAGUC C AAGAAGUC	2892	GACUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IACUCUUU	18200
7973	AAGAGUCC A AGAAGUCA	2893	UGACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGACUCUU	18201
7981	AAGAAGUC A GAGGGUAC	2894	GUACCCUC CUGAUGAG	GCCGUUAGGC	CGAA IACUUCUU	18202
7990	GAGGGUAC A CAAAGGGC	2895	GCCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUACCCUC	18203
7992	GGGUACAC A AAGGGCGG	2896	CCGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUACCC	18204
8003	GGGCGGUC C CGGACAUG	2897	CAUGUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACCGCCC	18205
8004	GGCGGUCC C GGACAUGA	2898	UCAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGACCGCC	18206
8009	UCCCGGAC A UGAAGAGC	2899	GCUCUUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGGA	18207
8018	UGAAGAGC C CCAACUAG	2900	CUAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUCA	18208
8019	GAAGAGCC C CAACUAGU	2901	ACUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUUC	18209
8020	AAGAGCCC C AACUAGUG	2902	ACUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUCUU	18210
8021	AGAGCCCC A ACUAGUGC	2903	GCACUAGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGUCUU	18211
8024	GCCCAAC U AGUGCAAA	2904	UUUGCACTU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGGGC	18212
8030	ACUAGUCC A AAGUUAUG	2905	CAUAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICACTUAGU	18213
8047	GAUGGAAC A UUGUCACC	2906	GGUGACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAUC	18214
8053	ACAUUGUC A CCAUGAAG	2907	CUUCAUGG CUGAUGAG	GCCGUUAGGC	CGAA IACAUGU	18215
8055	AUUGUCAC C AUGAAGAG	2908	CUCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGACAAU	18216
8056	UUGUCACC A UGAAGAGU	2909	ACUCUUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACAA	18217
8080	AUGUGUUC U ACAGACCU	2910	AGGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAACAAU	18218
8083	UGUUCUAC A GACCUUCU	2911	AGAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGAACA	18219
8087	CUACAGAC C UUCUGAGU	2912	ACUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUAG	18220
8088	UACAGACC U UCUGAGUG	2913	CACUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGUA	18221
8091	AGACCUUC U GAGUGUUG	2914	CAACACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCU	18222
8104	GUUGUGAC A CCCUCCUU	2915	AAGGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCACAAC	18223
8106	UGUGACAC C CUCCUUG	2916	CAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCACA	18224
8107	GUGACACC C UCCUUUGU	2917	ACAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAC	18225
8108	UGACACCC U CCUUUGUG	2918	CACAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUCA	18226
8110	ACACCUC C UUUGUGAC	2919	GUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUGU	18227
8111	CACCCUCC U UUGUGACA	2920	UGUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGGUG	18228
8119	UUUGUGAC A UCGGAGAG	2921	CUCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCACAAA	18229
8130	GGAGAGUC C UCGUCAAG	2922	CUUGACGA CUGAUGAG	GCCGUUAGGC	CGAA IACUCUCC	18230
8131	GAGAGUCC U CGUCAAGU	2923	ACUUGACG CUGAUGAG	GCCGUUAGGC	CGAA IAGACUCUC	18231
8136	UCCUCGUC A AGUGCUGA	2924	UCAGCACU CUGAUGAG	GCCGUUAGGC	CGAA IACGAGGA	18232
8142	UCAAGUGC U GAGGUUGA	2925	UCAACCUC CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGA	18233

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8156	UGAAGAGC A UAGGACGA	2926	UCGUCCUA CUGAUGAG GCCGUUAGGC	CGAA ICUCUUCA	18234
8173	UUCGGGUC C UUGAAAUG	2927	CAUUCUAA CUGAUGAG GCCGUUAGGC	CGAA IACCCGAA	18235
8174	UCGGGUCC U UGAAAUGG	2928	CCAUUUA CUGAUGAG GCCGUUAGGC	CGAA IGACCCGA	18236
8191	UUGAGGAC U GGCUGCAC	2929	GUGCAGCC CUGAUGAG GCCGUUAGGC	CGAA IUCCUCAA	18237
8195	GGACUGGC U GCACCGAG	2930	CUCGGUGC CUGAUGAG GCCGUUAGGC	CGAA ICCAGUCC	18238
8198	CUGGCUGC A CCGAGGGC	2931	GCCCUCGG CUGAUGAG GCCGUUAGGC	CGAA ICAGCCAG	18239
8200	GGCUGCAC C GAGGGCCA	2932	UGGCCCUC CUGAUGAG GCCGUUAGGC	CGAA IUGCAGCC	18240
8207	CCGAGGGC C AAGGGAAU	2933	AUUCUUU CUGAUGAG GCCGUUAGGC	CGAA ICCUCUGG	18241
8208	CGAGGGCC A AGGGAAU	2934	AAUUCUU CUGAUGAG GCCGUUAGGC	CGAA IGCCUCUG	18242
8231	GAAGGUC U CUGCCCU	2935	AGGGGCAG CUGAUGAG GCCGUUAGGC	CGAA ICACCUUC	18243
8233	AGGUGCUC U GCCCUAC	2936	GUAGGGC CUGAUGAG GCCGUUAGGC	CGAA IAGCACCU	18244
8236	UGCUCUGC C CCUACAUG	2937	CAUGUAGG CUGAUGAG GCCGUUAGGC	CGAA ICAGAGCA	18245
8237	GCUCUGCC C CUACAUGC	2938	GCAUGUAG CUGAUGAG GCCGUUAGGC	CGAA IGCAAGC	18246
8238	CUCUGCCC C UACAUGCC	2939	GGCAUGUA CUGAUGAG GCCGUUAGGC	CGAA IGGCAGAG	18247
8239	UCUGCCCC U ACAUGCCG	2940	CGGCAUGU CUGAUGAG GCCGUUAGGC	CGAA IGGGCAGA	18248
8242	GCCCCUAC A UGCCGAAA	2941	UUUCGGCA CUGAUGAG GCCGUUAGGC	CGAA IUAGGGGC	18249
8246	CUACAUGC C GAAAGUCA	2942	UGACUUUC CUGAUGAG GCCGUUAGGC	CGAA ICAUGUAG	18250
8254	CGAAAGUC A UAGAGAAG	2943	CUUCUCUA CUGAUGAG GCCGUUAGGC	CGAA IACUUUCG	18251
8270	GAUGGAGC U GCUCCAAC	2944	GUUGGAGC CUGAUGAG GCCGUUAGGC	CGAA ICUCCAUC	18252
8273	GGAGCUGC U CCAACGCC	2945	GGCGUUG CUGAUGAG GCCGUUAGGC	CGAA ICAGUCC	18253
8275	AGCUGCUC C AACCCGG	2946	CCGGCGUU CUGAUGAG GCCGUUAGGC	CGAA IAGCAGCU	18254
8276	GCUGCUCC A ACGCCGGU	2947	ACCGGCGU CUGAUGAG GCCGUUAGGC	CGAA IGAGCAGC	18255
8281	UCCAACGC C GGUAUGGG	2948	CCCAUACC CUGAUGAG GCCGUUAGGC	CGAA ICGUUGGA	18256
8297	GGGGGAC U GGUCAGAA	2949	UUCUGACC CUGAUGAG GCCGUUAGGC	CGAA IUCCCCC	18257
8302	GACUGGUC A GAAACCCA	2950	UGGGUUUC CUGAUGAG GCCGUUAGGC	CGAA IACCAGUC	18258
8308	UCAGAAAC C CACUCUCA	2951	UGAGAGUG CUGAUGAG GCCGUUAGGC	CGAA IUUUUCGA	18259
8309	CAGAAACC C ACUCUCAC	2952	GUGAGAGU CUGAUGAG GCCGUUAGGC	CGAA IGUUUUCG	18260
8310	AGAAACCC A CUCUCACG	2953	CGUGAGAG CUGAUGAG GCCGUUAGGC	CGAA IGGUUUCU	18261
8312	AAACCCAC U CUCACGGA	2954	UCCGUGAG CUGAUGAG GCCGUUAGGC	CGAA IUGGGUUU	18262
8314	ACCCACUC U CACGGAU	2955	AUUCGGUG CUGAUGAG GCCGUUAGGC	CGAA IAGUGGGU	18263
8316	CCACUCUC A CGGAUUUC	2956	GAAUUCG CUGAUGAG GCCGUUAGGC	CGAA IAGAGUGG	18264
8325	CGGAUUC C ACGCACGA	2957	UCGUGCGU CUGAUGAG GCCGUUAGGC	CGAA IAAUUCG	18265
8326	GGAAUUC C CGCACGAG	2958	CUGUGCG CUGAUGAG GCCGUUAGGC	CGAA IGAUUCG	18266
8330	UUCCACGC A CGAGAUGU	2959	ACAUUCUG CUGAUGAG GCCGUUAGGC	CGAA ICGUGGAA	18267
8355	AGUCGAGC U UCAGGCAA	2960	UUGCCUGA CUGAUGAG GCCGUUAGGC	CGAA ICUCGACU	18268
8358	CGAGCUUC A GGCAUGU	2961	ACAUUGCC CUGAUGAG GCCGUUAGGC	CGAA IAAGCUCG	18269
8362	CUUCAGGC A AUGUGGUA	2962	UACCACAU CUGAUGAG GCCGUUAGGC	CGAA ICCUGAAG	18270
8372	UGUGGUAC A UUCAGUGA	2963	UCACUGAA CUGAUGAG GCCGUUAGGC	CGAA IUACCACA	18271
8376	GUACAUC A GUGAAU	2964	AUAUUCAC CUGAUGAG GCCGUUAGGC	CGAA IAAUGUAC	18272
8388	AAUAUGAC C AGCCAGGU	2965	ACCUGGCU CUGAUGAG GCCGUUAGGC	CGAA IUCAUUAU	18273
8389	AUAUGACC A GCCAGGUG	2966	CACUGGC CUGAUGAG GCCGUUAGGC	CGAA IGUCAUUA	18274
8392	UGACCAGC C AGGUGCUC	2967	GAGCACCU CUGAUGAG GCCGUUAGGC	CGAA ICUGUCA	18275
8393	GACCAGCC A GGUGCUC	2968	GGAGCAC CUGAUGAG GCCGUUAGGC	CGAA IGCUGGUC	18276
8399	CCAGGUGC U CCUAGGAA	2969	UUCUAGG CUGAUGAG GCCGUUAGGC	CGAA ICACUUGG	18277
8401	AGGUGCUC C UAGGAAGA	2970	UCUUCUA CUGAUGAG GCCGUUAGGC	CGAA IAGCACCU	18278
8402	GGUGCUC C UAGGAAGA	2971	UUCUUCU CUGAUGAG GCCGUUAGGC	CGAA IGAGCAC	18279
8424	AAAAGGAC C UGGAAGGG	2972	CCCUUCA CUGAUGAG GCCGUUAGGC	CGAA IUCCUUU	18280
8425	AAAGGACC U GGAAGGGA	2973	UCCCUCC CUGAUGAG GCCGUUAGGC	CGAA IGUCUUU	18281
8435	GAAGGGAC C CCAUACG	2974	CGUAUUG CUGAUGAG GCCGUUAGGC	CGAA IUCCUUC	18282
8436	AAGGGACC C CAAUACGA	2975	UCUAUUG CUGAUGAG GCCGUUAGGC	CGAA IGUCUUU	18283
8437	AGGGACCC C AAUACGAG	2976	CUCGUUU CUGAUGAG GCCGUUAGGC	CGAA IGGUCCU	18284
8438	GGGACCCC A AUACGAGG	2977	CCUCGUU CUGAUGAG GCCGUUAGGC	CGAA IGGUCCC	18285
8458	AUGUAAAC U UGGGAAGU	2978	ACUUCUCC CUGAUGAG GCCGUUAGGC	CGAA IUUUACAU	18286
8472	AGUGGAAC C AGGGCGGU	2979	ACCGCCU CUGAUGAG GCCGUUAGGC	CGAA IUUCCACU	18287
8473	GUGGAACC A GGGCGGUG	2980	CACCGCC CUGAUGAG GCCGUUAGGC	CGAA IGUCCAC	18288
8489	GGGAAAAC C CUUGCUCA	2981	UGAGCAGG CUGAUGAG GCCGUUAGGC	CGAA IUUUCCC	18289
8490	GGAAAACC C CUGCUCAA	2982	UUGAGCAG CUGAUGAG GCCGUUAGGC	CGAA IGUUUCC	18290
8491	GAAAACCC C UGCUCAAC	2983	GUUGAGCA CUGAUGAG GCCGUUAGGC	CGAA IGGUUUUC	18291
8492	AAAACCCC U GCUCACTU	2984	AGUUGAGC CUGAUGAG GCCGUUAGGC	CGAA IGGUUUU	18292
8495	ACCCUUGC U CAACUCAG	2985	CUGAGUUG CUGAUGAG GCCGUUAGGC	CGAA ICAGGGGU	18293
8497	CCCUUGUC A ACUCAGAC	2986	GUCUGAGU CUGAUGAG GCCGUUAGGC	CGAA IAGCAGG	18294

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8500	UGCUC AAC U CAGACACC	2987	GGUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGCA	18295
8502	CUC AACUC A GACACCAG	2988	CUGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGUUGAG	18296
8506	ACUCAGAC A CCAGUAAA	2989	UUUACUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAGU	18297
8508	UCAGACAC C AGUAAAAU	2990	AUUUUACU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGA	18298
8509	CAGACACC A GUAAAUC	2991	GAUUUUAC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCUG	18299
8518	GUAAAUC A AGAACAGG	2992	CCUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUAC	18300
8524	UCAAGAAC A GGAUUGAA	2993	UUCAAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUGA	18301
8537	UGAACGAC U CAGGCGUG	2994	CACGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUCA	18302
8539	AACGACUC A GCGUGAG	2995	CUCACGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGUU	18303
8551	GUGAGUAC A GUUCGACG	2996	CGUCGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUCAC	18304
8564	GACGUGGC A CCACGAUG	2997	CAUCGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICCACGUC	18305
8566	CGUGGCAC C ACGAUGAG	2998	CUCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCACG	18306
8567	UGGCACC A CGAUGAGA	2999	UCUCAUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCCAC	18307
8578	AUGAGAAC C ACCCAUUA	3000	AUAUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCAU	18308
8579	UGAGAACC A CCCAUUA	3001	UAUAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCA	18309
8581	AGAACCAC C CAUAUAGA	3002	UCUAUAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCU	18310
8582	GAACCACC C AUAUAGAA	3003	UUCUAUAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUUC	18311
8583	AACCACCC A UAUAGAAC	3004	GUUCUAUA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGGUU	18312
8592	UAUAGAAC C UGGAACUA	3005	UAGUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUAUA	18313
8593	AUAGAACC U GGAACUAU	3006	AUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUAU	18314
8599	CCUGGAAC U AUCACGGC	3007	GCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGG	18315
8603	GAACUAUC A CGGCAGUU	3008	AACUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUUC	18316
8608	AUCACGGC A GUUAUGAU	3009	AUCAUAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAU	18317
8624	UGUGAAGC C CACAGGCU	3010	AGCCUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCACA	18318
8625	GUGAAGCC C ACAGGCUC	3011	GAGCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUUCAC	18319
8626	UGAAGCCC A CAGGCUCC	3012	GGAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUCA	18320
8628	AAGCCCAC A GGCUCGCG	3013	GCGGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGCUU	18321
8632	CCACAGGC U CCGCCAGU	3014	ACUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGUGG	18322
8634	ACAGGCUC C GCCAGUUC	3015	GAACUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGU	18323
8637	GGCUCGCG C AGUUCGCU	3016	AGCGAACU CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGCC	18324
8638	GCUCGCGC A GUUCGUG	3017	CAGCGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGC	18325
8645	CAGUUCGC U GGUCAAUG	3018	CAUUGACC CUGAUGAG	GCCGUUAGGC	CGAA ICGAACUG	18326
8650	CGCUGGUC A AUGGAGUG	3019	CACUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCAGCG	18327
8662	GAGUGGUC A GGCUCUC	3020	GAGGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IACCACUC	18328
8666	GGUCAGGC U CCUCUCAA	3021	UAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGACC	18329
8668	UCAGGCUC C UCUCAAAA	3022	UUUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGA	18330
8669	CAGGCUCU U CUCAAAAC	3023	GUUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGCCUG	18331
8671	GGCUCUCU U CAAAACCA	3024	UGGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCC	18332
8673	CUCUCUCU A AAACCAUG	3025	CAUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAG	18333
8678	CUCAAAAC C AUGGGACA	3026	UGUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGAG	18334
8679	UCAAAACC A UGGGACAC	3027	GUGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUGA	18335
8686	CAUGGGAC A CCAUCACG	3028	CGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCAUG	18336
8688	UGGGACAC C AUCACGAA	3029	UUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCCA	18337
8689	GGGACACC A UCACGAU	3030	AUUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCCC	18338
8692	ACACCAUC A CGAAUGUU	3031	AACAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGU	18339
8703	AAUGUUAC C ACCAUGGC	3032	GCCAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUAACAUU	18340
8704	AUGUUACC A CCAUGGCC	3033	GGCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUAACAU	18341
8706	GUUACCAC C AUGGCCAU	3034	AUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUAAC	18342
8707	UUACCACC A UGGCCAUG	3035	CAUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUA	18343
8712	ACCAUGGC C AUGACUGA	3036	UCAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGGU	18344
8713	CCAUGGCC A UGACUGAC	3037	GUCAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUGG	18345
8718	GCCAUGAC U GACACUAC	3038	GUAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGUCC	18346
8722	UGACUGAC A CUACUCCC	3039	GGGAGUAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAGUCA	18347
8724	ACUGACAC U ACUCCCUU	3040	AAGGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAGU	18348
8727	GACACUAC U CCUUCGCG	3041	CCGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUAGUGUC	18349
8729	CACUACUC C CUUCGGGC	3042	GCCCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUAGUG	18350
8730	ACUACUCC C UUCGGGCA	3043	UGCCCCGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUAGU	18351
8731	CUACUCCC U UCGGGCAG	3044	CUGCCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUAG	18352
8738	CUUCGGGC A GCAGCGAG	3045	CUCGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCGAAG	18353
8741	CGGGCAGC A GCGAGUGU	3046	ACACUCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCCG	18354
8752	GAGUGUUC A AAGAGAAG	3047	CUUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IAACACUC	18355

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8767	AGGUGGAC A CGAAAGCU	3048	AGCUUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCACCU	18356
8775	ACGAAAGC U CCUGAACC	3049	GGUUCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUCGU	18357
8777	GAAGCUC C UGAACCGC	3050	GCGGUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUUUC	18358
8778	AAAGCUCC U GAACCGCC	3051	GGCGGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCUUU	18359
8783	UCCUGAAC C GCCAGAAG	3052	CUUCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAGGA	18360
8786	UGAACCGC C AGAAGGAG	3053	CUCCUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUUCA	18361
8787	GAACCGCC A GAAGGAGU	3054	ACUCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUUUC	18362
8807	GUACGUGC U CAUUGAGA	3055	UCUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGUAC	18363
8809	ACGUGCUC A AUGAGACC	3056	GGUCUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCACGU	18364
8817	AAUGAGAC C ACCAACUG	3057	CAGUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCAU	18365
8818	UAGAGACC A CCAACUGG	3058	CCAGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCUCAU	18366
8820	GAGACCAC C AACUGGUU	3059	AAACAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUCUC	18367
8821	AGACCACC A ACUGGUUG	3060	CAACCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUCU	18368
8824	CCACCAAC U GGUUGUGG	3061	CCACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGUGG	18369
8844	UUUUUGGC C AGAGAAAA	3062	UUUUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAAAA	18370
8845	UUUUGGCC A GAGAAAAA	3063	UUUUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAAAA	18371
8858	AAAACGUC C CAGAAUGU	3064	ACAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUUUU	18372
8859	AAACGUCC C AGAAUGUG	3065	CACAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGUUU	18373
8860	AACGUCCC A GAAUGUGC	3066	GCACUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACGUU	18374
8869	GAAUGUGC U CUCGAGAG	3067	CUCUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAUUC	18375
8871	AUGUGCUC U CGAGAGGA	3068	UCCUCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCACAU	18376
8884	AGGAAUUC A UAAGAAAG	3069	CUUUCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUCU	18377
8896	GAAAGGUC A ACAGCAAU	3070	AUUGCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUUC	18378
8899	AGGUCAAC A GCAAUGCA	3071	UGCAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGACCU	18379
8902	UCAACAGC A AUGCAGCU	3072	AGCUGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUUGA	18380
8907	AGCAAUGC A GCUUUGGG	3073	CCCAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGCU	18381
8910	AAUGCAGC U UUGGGUGC	3074	GCACCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCAUU	18382
8919	UUGGGUGC C AUGUUUGA	3075	UCAAAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCCAA	18383
8920	UGGGUGCC A UGUUUGAA	3076	UUCAAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACCCA	18384
8933	UGAAGAGC A GAAUCAAU	3077	AUUGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUUCA	18385
8939	GCAGAAUC A AUGGAGGA	3078	UCCUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUGC	18386
8952	AGGAGCGC C AGAGAAGC	3079	GCUUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUCU	18387
8953	GGAGCGCC A GAGAAGCA	3080	UGCUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUCU	18388
8961	AGAGAAGC A GUUGAAGA	3081	UCUUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCU	18389
8972	UGAAGAUC C AAAUUUUU	3082	AAAAUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUCA	18390
8973	GAAGAUC C AAAUUUUG	3083	CAAAUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCUUC	18391
9009	CGCGAGGC A CAUCUGCG	3084	CGCAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGCG	18392
9011	CGAGGCAC A UCUGCGGG	3085	CCCGCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCUCG	18393
9014	GGCACAUC U GCGGGGGG	3086	CCCCCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCC	18394
9029	GGAAUGUC A CACUUGCA	3087	UGCAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUUC	18395
9031	AAUGUCAC A CUUGCAUU	3088	AAUGCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACAUU	18396
9033	UGUCACAC U UGCAUUUA	3089	UAAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGACA	18397
9037	ACACUUGC A UUAACAAC	3090	GUUGUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGUGU	18398
9043	GCAUUUAC A ACAUGAUG	3091	CAUUAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAAUGC	18399
9046	UUUACAAC A UGAUGGGA	3092	UCCCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUAAA	18400
9071	GAAAAAAC C CGGAGAGU	3093	ACUCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUUC	18401
9072	AAAAAACC C CGGAGAGU	3094	AACUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUUUU	18402
9090	GGAAAGGC C AAGGGAAG	3095	CUUCCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUUCC	18403
9091	GAAAGGCC A AGGGAAGC	3096	GCUUCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUUC	18404
9100	AGGGAAGC A GAGCCAUU	3097	AAUGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCCU	18405
9105	AGCAGAGC C AUUUGGUU	3098	AACCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGCU	18406
9106	GCAGAGCC A UUUGGUUC	3099	GAACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUGC	18407
9115	UUUGGUUC A UGUGGCUC	3100	GAGCCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCAA	18408
9122	CAUGUGGC U CGGAGCUC	3101	GAGCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACAUG	18409
9129	CUCGGAGC U CGCUUUCU	3102	AGAAAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCGAG	18410
9133	GAGCUCGC U UUCUGGAG	3103	CUCCAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCUC	18411
9137	UCGCUUUC U GGAGUUCG	3104	CGAACUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGCGA	18412
9150	UUCGAGGC U CUGGGUUU	3105	AAACCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGAA	18413
9152	CGAGGCUC U GGGUUUUC	3106	GAAACCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUCG	18414
9161	GGGUUUUC U CAUGAAG	3107	CUUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACCCC	18415
9163	GUUUUCUC A AUGAAGAC	3108	GUCUUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAAAC	18416

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9172	AUGAAGAC C ACUGGCUU	3109	AAGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUAU	18417
9173	UGAAGACC A CUGGCUUG	3110	CAAGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUAU	18418
9175	AAGACCAC U GGUUGGA	3111	UCCAAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCUU	18419
9179	CCACUGGC U UGGAAGAA	3112	UUUJUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUGG	18420
9193	GAAAGAAC U CAGGAGGA	3113	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUAU	18421
9195	AAGAACUC A GGAGGAGG	3114	CCUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCUU	18422
9214	UCGAGGGC U UGGGCCUC	3115	GAGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUGA	18423
9220	GCUUGGGC C UCCAAAAA	3116	UUUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAGC	18424
9221	CUUGGGCC U CCAAAAAC	3117	GUUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAAG	18425
9223	UGGGCCUC C AAAAACUG	3118	CAGUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCCA	18426
9224	GGGCCUCC A AAAACUGG	3119	CCAGUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGGCCC	18427
9230	CCAAAAAC U GGUUACA	3120	UGUAACCC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	18428
9238	UGGUUAC A UCCUGCGU	3121	ACGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IUAACCCA	18429
9241	GUUACAUC C UGCGUGAA	3122	UUCACGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAC	18430
9242	UUACAUC U GCGUGAAG	3123	CUUCACGC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUAA	18431
9256	AAGUUGC A CCCGGCCU	3124	AGGCCGGG CUGAUGAG	GCCGUUAGGC	CGAA ICCAACUU	18432
9258	GUUGGCAC C CGGCCUGG	3125	CAGGCCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAAC	18433
9259	UUGGCACC C GGCUGGG	3126	CCCAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGCCAA	18434
9263	CACCCGGC C UGGGGGCA	3127	UGCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGUG	18435
9264	ACCCGGCC U GGGGGCAA	3128	UUGCCCCC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGGGU	18436
9271	CUGGGGGC A AGAUCUAU	3129	AUAGAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAG	18437
9277	GCAAGAUC U AUGCUGAU	3130	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUG	18438
9282	AUCUAUGC U GAUGACAC	3131	GUGUCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUAGAU	18439
9289	CUGAUGC A CAGCUGGC	3132	GCCAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUAG	18440
9291	GAUGACAC A GCUGGUG	3133	CAGCCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUC	18441
9294	GACACAGC U GGCUGGGA	3134	UCCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGUC	18442
9298	CAGCUGGC U GGGACACC	3135	GGUGUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGCUG	18443
9304	GCUGGGAC A CCCGCAUC	3136	GAUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGC	18444
9306	UGGGACAC C CGCAUCAC	3137	GUGAUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCA	18445
9307	GGGACACC C GCAUCACG	3138	CGUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCCC	18446
9310	ACACCGGC A UCACGAGA	3139	UCUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGGUGU	18447
9313	CCCGCAUC A CGAGAGCU	3140	AGCUCUCG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGG	18448
9321	ACGAGAGC U GACUUGGA	3141	UCCAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCGU	18449
9325	GAGCUGAC U UGGAAGAU	3142	AUUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCUC	18450
9339	AAUGAAGC U AAGGUGCU	3143	AGCACCUU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAUU	18451
9347	UAAGGUGC U UGAGCUGC	3144	GCAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICACCUUA	18452
9353	GCUUGAGC U GCUUGAUG	3145	CAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAAGC	18453
9356	UGAGCUGC U UGAUGGGG	3146	CCCCAUC A CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUCA	18454
9368	UGGGGAAC A UCGCGUC	3147	GACGCCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCCA	18455
9377	UCGGCGUC U UGCCAGGG	3148	CCUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IACGCCGA	18456
9381	CGUCUUGC C AGGGCCAU	3149	AUGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGACG	18457
9382	GUCUUGCC A GGGCAUC	3150	GAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGAC	18458
9387	GCCAGGGC C AUCAUUGA	3151	UCAUAUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGC	18459
9388	CCAGGGCC A UCAUUGAG	3152	CUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGG	18460
9391	GGGCCAUC A UUGAGCUC	3153	GAGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCC	18461
9398	CAUUGAGC U CACCUAUC	3154	GAUAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAAG	18462
9400	UUGAGCUC A CCUAUCGU	3155	ACGAUAGG CUGAUGAG	GCCGUUAGGC	CGAA IACGCUAA	18463
9402	GAGCUCAC C UAUCGUCA	3156	UGACGAUA CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCUC	18464
9403	AGCUCACC U AUCGUCAC	3157	GUGACGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGCU	18465
9410	CUAUCGUC A CAAAGUUG	3158	CAACUUUG CUGAUGAG	GCCGUUAGGC	CGAA IACGAUAG	18466
9412	AUCGUCAC A AAGUUGUG	3159	CACAACUU CUGAUGAG	GCCGUUAGGC	CGAA IUGACGAU	18467
9433	UGAUGCGC C CGGUCUCU	3160	AGCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUCA	18468
9434	GAUGCGCC C GGCUGCUG	3161	CAGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IGCGCAUC	18469
9438	CGCCCGGC U GCUGAUGG	3162	CCAUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGCG	18470
9441	CCGGCUGC U GAUGGAAG	3163	CUUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGG	18471
9453	GGAAGAAC C GUCAUGGA	3164	UCCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	18472
9457	GAACCGUC A UGGAUGUU	3165	AACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUC	18473
9469	AUGUUAUC U CCAGAGAA	3166	UUCUCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUACAUC	18474
9471	GUUAUCUC C AGAGAAGA	3167	UCUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUAA	18475
9472	UUAUCUC A GAGAAGAU	3168	AUCUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUAA	18476
9482	AGAAGAUC A GAGGGGA	3169	UCCCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUC	18477

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9497	GAGUGGAC A AGUUGUCA	3170	UGACAACU CUGAUGAG	GCCGUUAGGC	CGAA IUCCACUC	18478
9505	AAGUUGUC A CCUACGCC	3171	GGCGUAGG CUGAUGAG	GCCGUUAGGC	CGAA IACAACUU	18479
9507	GUUGUCAC C UACGCCCU	3172	AGGGCGUA CUGAUGAG	GCCGUUAGGC	CGAA IUGACAAC	18480
9508	UUGUCACC U ACGCCCUA	3173	UAGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGACAA	18481
9513	ACCUACGC C CUAACAC	3174	GUGUUUAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUAGGU	18482
9514	CCUACGCC C UAAACACU	3175	AGUGUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAGG	18483
9515	CUACGCC C U AAACACU	3176	AAGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGUAG	18484
9520	CCCUAAAC A CUUUCACC	3177	GGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUAGGG	18485
9522	CUAAACAC U UUCACCAA	3178	UUGGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUAGG	18486
9526	ACACUUUC A CCAACUG	3179	CAGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUGU	18487
9528	ACUUUCAC C AACCUGGC	3180	GCCAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGU	18488
9529	CUUUCACC A ACCUGGCC	3181	GGCCAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAAG	18489
9532	UCACCAAC C UGGCCGUC	3182	GACGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGA	18490
9533	CACCAACC U GGCCGUCC	3183	GGACGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUG	18491
9537	AACCUGGC C GUCCAGCU	3184	AGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGUU	18492
9541	UGGCCGUC C AGCUGGUG	3185	CACCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IACGGCCA	18493
9542	GGCCGUCC A GCUGGUGA	3186	UCCAGC CUGAUGAG	GCCGUUAGGC	CGAA IGACGGCC	18494
9545	CGUCCAGC U GGUGAGGA	3187	UCCUACCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGACG	18495
9580	UGAUUGGC C CAGAUGAU	3188	AUCAUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCA	18496
9581	GAUUGGCC C AGAUGAUG	3189	CAUCAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAUC	18497
9582	AUUGGCC C A GAUGAUGU	3190	ACAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCAAU	18498
9599	GGAGAAAC U CACAAAG	3191	CUUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCCU	18499
9601	AGAAACUC A CAAAAGGG	3192	CCUUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUUCU	18500
9603	AAACUCAC A AAAGGGAA	3193	UUCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGUUU	18501
9617	GAAAGGAC C CAAAGUCA	3194	UGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUUC	18502
9618	AAAGGACC C AAAGUCAG	3195	CUGACUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUUU	18503
9619	AAGGACCC A AAGUCAGG	3196	CCUGACUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCUU	18504
9625	CCAAAGUC A GGACCUGG	3197	CCAGGUCC CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGG	18505
9630	GUCAGGAC C UGGCUGUU	3198	AACAGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGAC	18506
9631	UCAGGACC U GGCUGUUU	3199	AAACAGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUGA	18507
9635	GACCUGGC U GUUUGAGA	3200	UCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGUC	18508
9659	AGAAAGAC U CAGCGCA	3201	UGCGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUUCU	18509
9661	AAAGACTC A GCCGAUG	3202	CAUGCGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUUU	18510
9664	GACUCAGC C GCAUGGCU	3203	AGCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGUC	18511
9667	UCAGCCGC A UGGCUGUC	3204	GACAGCCA CUGAUGAG	GCCGUUAGGC	CGAA ICGGCUGA	18512
9672	CGCAUGGC U GUCAGUGG	3205	CCACUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGCG	18513
9676	UGGCUGUC A GUGGAGAU	3206	AUCUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCA	18514
9688	GAGAUGAC U GUGUGGUA	3207	UACCACAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCUC	18515
9701	GGUAAAGC C CCUGACG	3208	CGUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUAAC	18516
9702	GUAAAGCC C CUGGACGA	3209	UCGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUAC	18517
9703	UAAAGCCC C UGGACGAU	3210	AUCGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUA	18518
9704	AAAGCCCC U GGACGAUC	3211	GAUCGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUU	18519
9715	ACGAUCGC U UUGCCACC	3212	GGUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCGU	18520
9720	CGCUUUGC C ACCUCGCU	3213	AGCGAGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGCG	18521
9721	GCUUUGCC A CCUCGCU	3214	GAGCGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGC	18522
9723	UUUGCCAC C UCGUCCA	3215	UGGAGCGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAAA	18523
9724	UUGCCACC U CGUCCAC	3216	GUGGAGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCAA	18524
9728	CACCUCGC U CCACUCC	3217	GGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICGAGUGG	18525
9730	CCUCGCU C ACUCCUC	3218	GAGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAGG	18526
9731	CUCGCUCC A CUUCCUA	3219	UGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGAG	18527
9733	CGUCCAC U UCCUCAU	3220	AUUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGCG	18528
9736	UCCACUUC C UCAAGCU	3221	AGCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGGA	18529
9737	CCACUUC C CAAUGCU	3222	UAGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUGG	18530
9739	ACUUCUC A AUGCUAUG	3223	CAUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGU	18531
9744	CUCAAUGC U AUGUCAA	3224	UUUGACAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGAG	18532
9750	GCUAUGUC A AAGGUUCG	3225	CGAACCUU CUGAUGAG	GCCGUUAGGC	CGAA ICGAACCU	18533
9760	AGGUUCGC A AAGACAUC	3226	GAUGUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGC	18534
9766	GCAAAGAC A UCCAAGAG	3227	CUCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGC	18535
9769	AAGACAUC C AAGAGUGG	3228	CCACUCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUU	18536
9770	AGACAUC C AAGAGUGG	3229	UCCACUCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUCUU	18537
9782	GUGGAAAC C GUCAACUG	3230	CAGUUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUUCCAC	18538

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9786	AAACCGUC A ACUGGAUG	3231	CAUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUU	18539
9789	CCGUCAAC U GGAUGGUA	3232	UACCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUGACGG	18540
9806	UGAUUGGC A GCAGGUUC	3233	GAACCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCA	18541
9809	UUGGCAGC A GGUUCCAU	3234	AUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAA	18542
9815	GCAGGUUC C AUUUUGCU	3235	AGCAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IAACCUGC	18543
9816	CAGGUUCC A UUUUGCUC	3236	GAGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGAACCUG	18544
9823	CAUUUUGC U CAAACCAU	3237	AUGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAUUG	18545
9825	UUUUGCUC A AACCAUUC	3238	AAAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAAA	18546
9829	GCUCAAAC C AUUUCACU	3239	AGUGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGAGC	18547
9830	CUCAAAAC A UUUCACUG	3240	CAGUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGAG	18548
9835	ACCAUUC A CUGAAUUG	3241	CAAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGU	18549
9837	CAUUCAC U GAAUUGAU	3242	AUCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUUG	18550
9847	AAUUGAUC A UGAAAGAU	3243	AUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAUU	18551
9864	GGAAGAAC A CUGGUGGU	3244	ACCACCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	18552
9866	AGAACAC U GGUGGUUC	3245	GAACCACC CUGAUGAG	GCCGUUAGGC	CGAA IUGUUCUU	18553
9875	GGUGGUUC C AUGCCGAG	3246	CUCGGGUA CUGAUGAG	GCCGUUAGGC	CGAA IAACCACC	18554
9876	GUGGUUCC A UGCCGAGG	3247	CCUCGGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAC	18555
9880	UCCAUGC C GAGGACAG	3248	CUGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGAA	18556
9887	CCGAGGAC A GGAUGAAU	3249	AUJCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCGG	18557
9904	UGGUAGGC A GAGCUCGC	3250	GCGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUACCA	18558
9909	GGCAGAGC U CGCAUUC	3251	GAUAUGCG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCC	18559
9913	GAGCUCGC A UAUCCCA	3252	UGGAGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUC	18560
9918	CGCAUUC U CCAGGGGC	3253	GCCCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCG	18561
9920	CAUAUCC A AGGGGCCG	3254	CCGCCCCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUAUUG	18562
9921	AUAUCC A GGGGCCG	3255	CCGCCCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAUAU	18563
9927	CCAGGGGC C GGAUGGAA	3256	UCCAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGG	18564
9940	GGAACGUC C GCGACACU	3257	AGUGUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACGUUC	18565
9946	UCCGCGAC A CUGCUUGU	3258	ACAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGGA	18566
9948	CGCGACAC U GCUUGUCU	3259	AGACAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGCG	18567
9951	GACACUGC U UGUCUGGC	3260	GCCAGACA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGUC	18568
9956	UGCUUGUC U GGUUAGU	3261	ACUUAAGC CUGAUGAG	GCCGUUAGGC	CGAA IACAAGCA	18569
9960	UGUCUGGC U AAGUCUUA	3262	UAAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGACA	18570
9966	GUUAAGUC U UAUGCCCA	3263	UGGGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IACUUAAGC	18571
9972	UCUUAUGC C CAGAUGUG	3264	CACAUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUAAGA	18572
9973	CUUAUGCC C AGAUGUGG	3265	CCACAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUAAG	18573
9974	UAUAGCCC A GAUGUGGC	3266	GCCACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUAA	18574
9983	GAUGUGGC U GCUUCUGU	3267	ACAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAUC	18575
9986	GUGGUGUC U UCUGUACU	3268	AGUACAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAC	18576
9989	CUGGUCUC U GUACUUC	3269	GGAAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGC	18577
9994	UUCUGUAC U UCCACAGA	3270	UCUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUACAGAA	18578
9997	UGUACUUC C ACAGAAGA	3271	UCUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUACA	18579
9998	GUACUUC A CAGAAGAG	3272	CUCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUAC	18580
10000	ACUCCAC A GAAGAGAC	3273	GUCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGU	18581
10009	GAAGAGAC C UGCGGCUC	3274	GAGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUUC	18582
10010	AAGAGACC U GCGGCUCA	3275	UGAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCUU	18583
10016	CCUGCGGC U CAUGGCCA	3276	UGGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGACGG	18584
10018	UGCGGCUC A UGGCCAAC	3277	GUUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGCA	18585
10023	CUCAUGGC C AACGCCAU	3278	AUGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGAG	18586
10024	UCAUGGCC A ACGCCAUU	3279	AAUGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUGA	18587
10029	GCCAACGC C AUUUGCUC	3280	GAGCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGC	18588
10030	CCAACGCC A UUUGCUC	3281	GGAGCAAA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUGG	18589
10036	CAUUGUC U CCGCUGUC	3282	GACAGCGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAUGG	18590
10038	AUUGUC C GCUGUCC	3283	GGGACAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAAU	18591
10041	UGCUCCG C GUCCUGU	3284	ACAGGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGCA	18592
10045	CCGUGUC C CUGUGAAU	3285	AUUCACAG CUGAUGAG	GCCGUUAGGC	CGAA IACAGCGG	18593
10046	CGCUGUC C UGUGAAUU	3286	AAUUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCG	18594
10047	GCUGUCC U GUGAAUUG	3287	CAAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGACAGC	18595
10060	AUUGGUC C CUACCGGA	3288	UCCGGUAG CUGAUGAG	GCCGUUAGGC	CGAA IACCCAUA	18596
10061	UUGGUGUC C UACCGGAA	3289	UUCGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGACCCAA	18597
10062	UGGUGUCC U ACCGGAAG	3290	CUUCCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGACCCA	18598
10065	GUCCUAC C GGAAGAAC	3291	GUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGGGAC	18599

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10074	GGAAGAAC C ACGUGGUC	3292	GACCACGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	18600
10075	GAAGAACC A CGUGGUCC	3293	GGACCACG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUC	18601
10083	ACGUGGUC C AUCCAUGC	3294	GCAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCACGU	18602
10084	CGUGGUCC A UCCAUGCA	3295	UGCAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCACG	18603
10087	GGUCCAUC C AUGCAGGA	3296	UCCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACC	18604
10088	GUCCAUC C AUGCAGGAG	3297	CUCUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	18605
10092	AUCCAUGC A GGAGGAGA	3298	UCUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGAU	18606
10110	UGGAUGAC A ACAGAGGA	3299	UCCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCCA	18607
10113	AUGACAAC A GAGGACAU	3300	AUGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAU	18608
10120	CAGAGGAC A UGUUGGAG	3301	UCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCUG	18609
10132	UGGAGGUC U GGAACCGU	3302	ACGGUCC CUGAUGAG	GCCGUUAGGC	CGAA IACCUGCA	18610
10138	UCUGGAAC C GUGUUGG	3303	CCAAACAC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGCA	18611
10174	UGGAAGAC A AAACCCCA	3304	UGGGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCA	18612
10179	GACAAAAC C CCAGUGGA	3305	UCCACUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUC	18613
10180	ACAAAACC C CAGUGGAG	3306	CUCCACUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUUG	18614
10181	CAAAACCC C AGUGGAGA	3307	UCUCCACU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUUU	18615
10182	AAAACCCC C GUGGAGAA	3308	UUCUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUUU	18616
10204	GUGACGUC C CAUAUUA	3309	UGAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA IACGUCAC	18617
10205	UGACGUCC C AUUAUCAG	3310	CUGAAUAU CUGAUGAG	GCCGUUAGGC	CGAA IACGUCAC	18618
10206	GACGUCC C AUUAUCAG	3311	CCUGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IGGACGUC	18619
10212	CAUAUUA C GGAACCG	3312	CGUUUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGG	18620
10228	GAGAGGAC A UCUGGUGU	3313	ACACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCUC	18621
10231	AGGACAUC U GGUGUGG	3314	GCCACACC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCCU	18622
10240	GGUGUGG C GCCUGAUU	3315	AAUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACACC	18623
10243	GUGGCAGC C UGAUUGG	3316	GCACUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAC	18624
10244	UGGCAGCC U GAUUGGCA	3317	UGCCAAUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAUC	18625
10252	UGAUUGG C CAAGAGCC	3318	GGUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAUC	18626
10254	AUUGGCAC A AGAGCCCG	3319	CGGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAAU	18627
10260	ACAAGAGC C CGAGCCAC	3320	GUGGCUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUGU	18628
10261	CAAGAGCC C GAGCCACG	3321	CGUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUUG	18629
10266	GCCCGAGC C ACGUGGGC	3322	GCCCACGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGGC	18630
10267	CCCGAGCC A CGUGGCA	3323	UGCCCACG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCGGG	18631
10275	ACGUGGAC A GAAACAU	3324	AUGUUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACGU	18632
10282	CAGAAAC A UCCAGGUG	3325	CACCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCUG	18633
10285	AAAACAUC C AGGUGGCU	3326	AGCCACCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUUU	18634
10286	AAACAUC C AGGUGGCU	3327	UAGCCACC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUUU	18635
10293	CAGGUGG C AUCAACCA	3328	UGGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCACCTG	18636
10297	UGGCUAUC A ACCAAGUC	3329	GACUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCCA	18637
10300	CAUCAAC C AAGUCAGA	3330	UCUGACU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUAG	18638
10301	UAUCAAC C AAGUCAGA	3331	CUCUGACU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAUA	18639
10306	ACCAAGUC A GAGCAUUC	3332	GAUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IACUUGU	18640
10311	GUCAGAG C AUCAUCGG	3333	CCGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGAC	18641
10315	GAGCAUC A UCGGAGAU	3334	AUCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUC	18642
10342	UGGAUUA C UGAGUUA	3335	UGAACUCA CUGAUGAG	GCCGUUAGGC	CGAA IUAUCCA	18643
10350	AUGAGUUC A CUAAGAG	3336	CUCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IAACUCAU	18644
10352	GAGUUCAC U AAGAGAU	3337	AUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAACUC	18645
10369	AUGAAGAC A CAACUUG	3338	CAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUAU	18646
10371	GAAGACAC A ACUUUGU	3339	ACCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUAU	18647
10374	GACACAAC U UUGGUUGA	3340	UCAACCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUC	18648
10387	UUGAGGAC A CAGUACUG	3341	CAGUACUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCAA	18649
10389	GAGGACAC A GUACUGUA	3342	UACAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCUC	18650
10394	CACAGUAC U GUAGUAU	3343	AUAUCUA CUGAUGAG	GCCGUUAGGC	CGAA IUACUGUG	18651
10409	AUUUAUC A AUUGUAAA	3344	UUUACAAU CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUAU	18652
10423	AAAUAGAC A AUUAAGU	3345	ACUUUAU CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUAU	18653
10436	AAGUAUC A UAAAGUG	3346	CACUUUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUACUU	18654
10509	AGAAAGUC A GGCCGGGA	3347	UCCCGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUACUU	18655
10513	AGUCAGGC C GGAAGUU	3348	AACUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGACU	18656
10523	GGAAGUUC C CGCCACCG	3349	CGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IAACUUC	18657
10524	GAAGUUC C GCCACCG	3350	CCGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUC	18658
10527	GUUCCGC C ACCGGAAG	3351	CUUCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGGAAC	18659
10528	UUCCGCC A CCGAAGU	3352	ACUCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGGGAA	18660

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10530	CCC GCCAC C GGAAGUUG	3353	CAACUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGGG	18661
10551	GACGUGC U GCCUGCGA	3354	UCGCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICACCGUC	18662
10554	GGUGCUGC C UGCGACUC	3355	GAGUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCACC	18663
10555	GUGCUGCC U GCGACUCA	3356	UGAGUCGC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCAC	18664
10561	CCUGCGAC U CAACCCCA	3357	UGGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGAG	18665
10563	UGCGACUC A ACCCCAGG	3358	CCUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCA	18666
10566	GACUCAAC C CCAGGAGG	3359	CCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGUC	18667
10567	ACUCAACC C CAGGAGGA	3360	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGU	18668
10568	CUCAACCC C AGGAGGAC	3361	GUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGAG	18669
10569	UCAACCCC A GGAGGACU	3362	AGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGA	18670
10577	AGGAGGAC U GGGUGAAC	3363	GUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18671
10586	GGGUGAAC A AAGCCGCG	3364	CGCGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCACCC	18672
10591	AACAAAGC C GCGAAGUG	3365	CACUUCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGUU	18673
10603	AAGUGAUC C AUGUAAGC	3366	GCUUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAU	18674
10604	AGUGAUCC A UGUUAGCC	3367	GGCUUACA CUGAUGAG	GCCGUUAGGC	CGAA IGAUACU	18675
10612	AUGUAAGC C CUCAGAAC	3368	GUUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUACAU	18676
10613	UGUAAGCC C UCAGAACC	3369	GGUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUACA	18677
10614	GUAAGCCC U CAGAACCG	3370	CGGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUAC	18678
10616	AAGCCUC A GAACCGUC	3371	GACGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUU	18679
10621	CUCAGAAC C GUCUCGGA	3372	UCCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGAG	18680
10625	GAACCGUC U CCGAAGGA	3373	UCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUC	18681
10638	AGGAGGAC C CCACAUGU	3374	ACAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18682
10639	GGAGGACC C CACAUGUU	3375	AACAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUCC	18683
10640	GAGGACCC C ACAUGUUG	3376	CAACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCUC	18684
10641	AGGACCCC A CAUGUUGU	3377	ACAACAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGGUCCU	18685
10643	GACCCAC A UGUUGUAA	3378	UUAACAAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGGUC	18686
10653	GUUGUAA U UCAAAGCC	3379	GGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUACAAC	18687
10656	GUAACUUC A AAGCCAA	3380	UUGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUA	18688
10661	IUCAAGC C CAAUGUCA	3381	UGACAUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGAA	18689
10662	UCAAGCC C AAUGUCAG	3382	CUGACAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGA	18690
10663	CAAAGCCC A AUGUCAGA	3383	UCUGACAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUG	18691
10669	CCAAUGUC A GACCACGC	3384	GCGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IACAUUGG	18692
10673	UGUCAGAC C ACGCUACG	3385	CGUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGACA	18693
10674	GUCAGACC A CGCUACGG	3386	CCGUAGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGAC	18694
10678	GACCACGC U ACGCGUG	3387	CACGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGUC	18695
10688	CGCGUGC U ACUCUGCG	3388	CGCAGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICACGCC	18696
10691	CGUGCUAC U CUGCGGAG	3389	CUCCGCG CUGAUGAG	GCCGUUAGGC	CGAA IUAGCACG	18697
10693	UGCUACUC U GCGGAGAG	3390	CUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA IAGUAGCA	18698
10705	GAGAGUGC A GUCUGCGA	3391	UCGCAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCUC	18699
10709	GUGCAGUC U GCGAUGU	3392	ACUAUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAC	18700
10720	AUAGUGC C CCAGGAGG	3393	CCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUC	18701
10721	AUAGUGCC C CAGGAGGA	3394	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACUAU	18702
10722	UAGUGCCC C AGGAGGAC	3395	GUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCACUA	18703
10723	AGUGCCCC A GGAGGACU	3396	AGUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCACU	18704
10731	AGGAGGAC U GGGUUAAC	3397	GUUAACCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18705
10740	GGGUUAAC A AAGGCAA	3398	UUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUAACCC	18706
10746	ACAAAGGC A AACCAACG	3399	CGUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGU	18707
10750	AGGCAAAC C AACGCCCC	3400	GGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCU	18708
10751	GGCAAACC A ACGCCCA	3401	UGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGU	18709
10756	ACCAACGC C CACGCGG	3402	CCGCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGU	18710
10757	CCAACGCC C CACGCGC	3403	GCGCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGG	18711
10758	CAACGCCC C ACGCGGC	3404	GGCCGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGUUG	18712
10759	AACGCCCC A CGCGGCC	3405	GGGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGCGU	18713
10766	CACGCGGC C CUAGCCCC	3406	GGGGCUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGUG	18714
10767	ACGCGGCC C UAGCCCCG	3407	CGGGGCUA CUGAUGAG	GCCGUUAGGC	CGAA ICGCGGU	18715
10768	CGCGGCC U AGCCCCG	3408	CCGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGCG	18716
10772	CCCUAGC C CCGUAAU	3409	AUUAACCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGGG	18717
10773	CCCUAGCC C CGUAAUG	3410	CAUUAACG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGG	18718
10774	CCUAGCCC C GGUAAUGG	3411	CCAUUACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAGG	18719
10790	GUGUUAAC C AGGGCGAA	3412	UUCGCCC CUGAUGAG	GCCGUUAGGC	CGAA IUUAACAC	18720
10791	UGUUAACC A GGGCGAAA	3413	UUUCGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUAACA	18721

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10804	GAAAGGAC U AGAGGUUA	3414	UAACCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUC	18722
10821	GAGGAGAC C CCGCGGUU	3415	AACCCGCG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCUC	18723
10822	AGGAGACC C CGCGGUUU	3416	AAACCCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCU	18724
10823	GGAGACCC C GCGGUUUA	3417	UAAACCCG CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUCC	18725
10838	UAAAGUGC A CGGCCAG	3418	CUGGGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICACUUUA	18726
10843	UGCACGGC C CAGCCUGA	3419	UCAGGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGCA	18727
10844	GCACGGCC C AGCCUGAC	3420	GUCAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUGC	18728
10845	CACGGCCC A CCGUGACU	3421	AGUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGUG	18729
10848	GGCCAGC C UGACUGAA	3422	UUCAGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGCC	18730
10849	GCCAGCC U GACUGAAG	3423	CUUCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGGC	18731
10853	AGCCUGAC U GAAGCUGU	3424	ACAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGCU	18732
10859	ACUGAAGC U GUAGGUCA	3425	UGACCUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAGU	18733
10867	UGUAGGUC A GGGGAAGG	3426	CCUCCCC CUGAUGAG	GCCGUUAGGC	CGAA IACCUACA	18734
10878	GGAAGGAC U AGAGGUUA	3427	UAACCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCC	18735
10895	GUGGAGAC C CCGUGCCA	3428	UGGCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCAC	18736
10896	UGGAGACC C CGUGCCAC	3429	GUGGCACG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCA	18737
10897	GGAGACCC C GUGCCACA	3430	UGUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUCC	18738
10902	CCCGUGC C ACAAACA	3431	UGUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGGG	18739
10903	CCCGUGCC A CAAACAC	3432	GUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACGGG	18740
10905	CGUGCCAC A AACACCA	3433	UGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCACG	18741
10910	CACAAAAC A CCACAACA	3434	UGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUG	18742
10912	CAAAACAC C ACAACAA	3435	UUUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUG	18743
10913	AAAACACC A CAACAAA	3436	UUUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	18744
10915	AACACCAC A ACAAACA	3437	UGUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGUUU	18745
10918	ACCACAAC A AACAGCA	3438	UGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGU	18746
10923	AACAAAAC A GCAUAUUG	3439	CAUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUU	18747
10926	AAAACAGC A UAUUGACA	3440	UGUCAUA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUUU	18748
10934	AUAUUGAC A CCUGGGAU	3441	AUCCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUUA	18749
10936	AUUGAC C UGGGAUAG	3442	CUAUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAU	18750
10937	UGACACC U GGAUAGA	3443	UCUAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAA	18751
10947	GGAUAGAC U AGGAGAUC	3444	GAUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCCU	18752
10956	AGGAGAUC U UCUGUCU	3445	AGAGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCCU	18753
10959	AGAUCUUC U GCUCUGCA	3446	UGCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUU	18754
10962	UCUCUGC U CUGACAA	3447	UUGUGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAGA	18755
10964	UUCUGCUC U GCACAACC	3448	GGUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAA	18756
10967	UGCUCUG C CAACCAGC	3449	GCUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCA	18757
10969	CUCUGCAC A ACCAGCCA	3450	UGGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAG	18758
10972	UGCACAAC C AGCCACAC	3451	GUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGCA	18759
10973	GCACAACC A GCCACACG	3452	CGUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGC	18760
10976	CAACCAGC C ACACGGCA	3453	UGCCGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUUG	18761
10977	AACCAGCC A CACGGCAC	3454	GUGCCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGUU	18762
10979	CCAGCCAC A CGGCACAG	3455	CUGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUGG	18763
10984	CACACGGC A CAGUGCGC	3456	GCGCACUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGUG	18764
10986	CACGGCAC A GUGCGCCG	3457	CCGCGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGUG	18765
10993	CAGUGCGC C GACAAUGG	3458	CCAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGU	18766
10997	GCGCCGAC A AUGGUGGC	3459	GCCACCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCGC	18767
11006	AUGGUGGC U GGUGUGGC	3460	GCACCACC CUGAUGAG	GCCGUUAGGC	CGAA ICCACCAU	18768
11021	GCGAGAAC A CAGGAUCU	3461	AGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCGC	18769

Input Sequence = AF196835. Cut Site = CH/.

Arm Length = 8. Core Sequence = CUGAUGAG X CGAA (X = GCCGUUAGGC or other stem II)

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table V

Table V: WNV Zinzyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
9	AGUAGUC G CUGUGUG	3462	CACACAGG GCCGAAAGGCGAGUGAGGUCU GAACUACU	18770
13	GUUGGCCU G UGUGAGCU	3463	AGUCACA GCCGAAAGGCGAGUGAGGUCU AGCGAAC	18771
15	UCGCCUGU G UGAGCUGA	3464	UCAGCUCA GCCGAAAGGCGAGUGAGGUCU ACAGGCGA	18772
19	CUGUGUGA G CUGACAAA	3465	UUUGUCAG GCCGAAAGGCGAGUGAGGUCU UCACACAG	18773
32	CAAACUUA G UAGUGUUU	3466	AAACACUA GCCGAAAGGCGAGUGAGGUCU UAAGUUUG	18774
35	ACUAGUA G UGUUUUG	3467	CACAAACA GCCGAAAGGCGAGUGAGGUCU ACUACUAA	18775
37	UAGUAGU G UUGUGAG	3468	CUACACAA GCCGAAAGGCGAGUGAGGUCU AAACACUA	18776
41	UAGUGUUU G UGAGGAAU	3469	AUCCUCA GCCGAAAGGCGAGUGAGGUCU UGUGUUAA	18777
66	UUAACACA G UCGAGCU	3470	AGCUCGCA GCCGAAAGGCGAGUGAGGUCU ACUGUGUU	18778
68	AAACAGU G CGAGCUGU	3471	ACAGCUCG GCCGAAAGGCGAGUGAGGUCU UGCGACUG	18779
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GCCGAAAGGCGAGUGAGGUCU AGCUCGCA	18780
75	UGCGAGCU G UUUUUUAG	3473	CUAAGAAA GCCGAAAGGCGAGUGAGGUCU AGCUCGCA	18781
83	GUUUCUUA G CACGAGA	3474	UCUUCGUG GCCGAAAGGCGAGUGAGGUCU UAAAGAAC	18782
99	AUCUCGAGU G UCUAAGAA	3475	UUCUUAGA GCCGAAAGGCGAGUGAGGUCU AUCGAGAU	18783
117	CCAGGAGU G CCGGCA	3476	UUGCCGGG GCCGAAAGGCGAGUGAGGUCU CCUCCUGG	18784
122	AGGGCCCG G CAAGAGCC	3477	GGCUCUUG GCCGAAAGGCGAGUGAGGUCU CCGGCCCU	18785
128	CGGCAAGA G CCGGGCUG	3478	CAGCCCGG GCCGAAAGGCGAGUGAGGUCU UCUUGCCG	18786
133	AGAGCCGG G CUGUCAU	3479	AUUGACAG GCCGAAAGGCGAGUGAGGUCU CCGGCUU	18787
136	GCCGGGCU G UCAAUUAG	3480	CAUAUUA GCCGAAAGGCGAGUGAGGUCU AGCCCGGC	18788
144	GUCAUAU G CUAAAACG	3481	CGUUUUG GCCGAAAGGCGAGUGAGGUCU AUUUUAGC	18789
152	GCUAUAU G CCGAAUCC	3482	GCAUUCG GCCGAAAGGCGAGUGAGGUCU GUUUUAGC	18790
159	CGGGAU G CCGCGGU	3483	ACGCGGGG GCCGAAAGGCGAGUGAGGUCU AUUCCGG	18791
164	AUUGCCC G CGUGUUG	3484	ACAACAG GCCGAAAGGCGAGUGAGGUCU GGGGCAU	18792
166	UGCCCGC G UGUUGUCC	3485	GGACACA GCCGAAAGGCGAGUGAGGUCU GCGGGCA	18793
168	CCCGGCU G UUGUCCU	3486	AAGGACA GCCGAAAGGCGAGUGAGGUCU ACACCGG	18794
171	CGCGUGU G UCCUUGAU	3487	AUCAAGG GCCGAAAGGCGAGUGAGGUCU AACACCG	18795
193	UGAAGAG G CUUUGU	3488	CAACAUG GCCGAAAGGCGAGUGAGGUCU CCUCUUA	18796
198	AGGGCUU G UUGAGCCU	3489	AGGCUCA GCCGAAAGGCGAGUGAGGUCU AUAGCCU	18797
203	UAUGUUA G CCUGAUCG	3490	CGAUCAG GCCGAAAGGCGAGUGAGGUCU CGUCGAU	18798
215	GAUCGAG G CAAGGGC	3491	GCCCUUG GCCGAAAGGCGAGUGAGGUCU UCAACAU	18799
222	GGCAAGG G CCAUAACG	3492	CGUAUUG GCCGAAAGGCGAGUGAGGUCU CCUUGCC	18800
235	UACGAUU G UGUUGCU	3493	AGCCACA GCCGAAAGGCGAGUGAGGUCU AAUUGUA	18801
237	CGAUUUG G UUGGCUU	3494	AGAGCAA GCCGAAAGGCGAGUGAGGUCU ACAAUUG	18802
241	UUGUGU G CUCUCUG	3495	CAAGAGG GCCGAAAGGCGAGUGAGGUCU CAACACA	18803
250	CUCUCUG G CGUUCUUC	3496	GAAGAAC GCCGAAAGGCGAGUGAGGUCU CAAGAGG	18804
252	CUCUUGG G UUCUUCAG	3497	CUGAAGA GCCGAAAGGCGAGUGAGGUCU GCCAAGG	18805

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261	UUCUUCAG G UUCACAGC	3498	GCUGUGAA GCCGAAAGGCGAGUGAGGUCU CUGAAGAA	18806
268	GGUUCACA G CAAUUGCU	3499	AGCAAUTG GCCGAAAGGCGAGUGAGGUCU UGUGAAC	18807
274	CAGCAUUV G CUCCGACC	3500	GGUCCGAG GCCGAAAGGCGAGUGAGGUCU AAUUGCUG	18808
286	CGACCCGA G CAGUGCUG	3501	CAGCACUG GCCGAAAGGCGAGUGAGGUCU UCGGGUCG	18809
289	CCGAGCA G UGUGGUAU	3502	AUCCACGA GCCGAAAGGCGAGUGAGGUCU UGUCGCGG	18810
291	CGAGCAGU G CUGGAUCG	3503	CGAUCCAG GCCGAAAGGCGAGUGAGGUCU ACUGCUCG	18811
308	AUGGAGAG G UGUGAACA	3504	UGUUCACA GCCGAAAGGCGAGUGAGGUCU CUCUCCAU	18812
310	GGAGAGGU G UGAACAAA	3505	UUUGUACA GCCGAAAGGCGAGUGAGGUCU ACCUCUCC	18813
325	AACAAACA G CGAUGAAA	3506	UUUCAUG GCCGAAAGGCGAGUGAGGUCU UGUUUUUU	18814
344	CUUUCUGA G UUUUAAGA	3507	UCUUAAA GCCGAAAGGCGAGUGAGGUCU UCAGAAAG	18815
374	CUUGACCA G UGCUAUCA	3508	UGAUAGCA GCCGAAAGGCGAGUGAGGUCU UGGUCAAG	18816
376	UGACCCAGU G CUUAUAAU	3509	AUGAUAG GCCGAAAGGCGAGUGAGGUCU ACUGGUCA	18817
387	AUCAUUG G CGGAGCUC	3510	GAGCUCG GCCGAAAGGCGAGUGAGGUCU CGAUTUGAU	18818
392	UGGGCGGA G CUCAAAC	3511	GUUUUGAG GCCGAAAGGCGAGUGAGGUCU UCCGCCGA	18819
430	CCGGAUU G CAGUCAUG	3512	CAUGACUG GCCGAAAGGCGAGUGAGGUCU AAUUCGCG	18820
433	GAUUGCA G UCAUGAUU	3513	AAUCAUGA GCCGAAAGGCGAGUGAGGUCU UGCAAUUC	18821
443	CAUGAUUG G CCUGAUCG	3514	CGAUCAG GCCGAAAGGCGAGUGAGGUCU CAAUCAUG	18822
451	GCUGAUC G CCAGCGUA	3515	UACGUCG GCCGAAAGGCGAGUGAGGUCU GAUCAGGC	18823
455	GAUCGCCA G CGUAGGAG	3516	CUCCUACG GCCGAAAGGCGAGUGAGGUCU UGGCGAUC	18824
457	UGCCAGC G UAGGAGCA	3517	UGUCUCCA GCCGAAAGGCGAGUGAGGUCU GCUGGCCA	18825
463	GGUAGGA G CAGUAGCC	3518	GGUAACUG GCCGAAAGGCGAGUGAGGUCU UCCUACGC	18826
466	UAGGAGCA G UUACCCUC	3519	GAGGUAA GCCGAAAGGCGAGUGAGGUCU UGCUCCUA	18827
493	AAGGGAG G UGAUGAUG	3520	CAUCAUCA GCCGAAAGGCGAGUGAGGUCU CUUCCCUU	18828
505	UGAUGAG G UAAUUGCU	3521	AGCAUUUA GCCGAAAGGCGAGUGAGGUCU CGUCAUCA	18829
511	CGUAAAU G CUACUGAC	3522	GUACAGUAG GCCGAAAGGCGAGUGAGGUCU AUUACCCG	18830
520	CUACUGAC G UCACAGAU	3523	AUCUGUGA GCCGAAAGGCGAGUGAGGUCU GUCAGUAG	18831
529	UCACAGAU G UCAUCACG	3524	CGUGAUGA GCCGAAAGGCGAGUGAGGUCU AUCUGUGA	18832
547	UUCCAACA G CUGCUGGA	3525	UCCAGCAG GCCGAAAGGCGAGUGAGGUCU UGUUGGAA	18833
550	CAACAGU G CUGGAAAG	3526	CUUUCAG GCCGAAAGGCGAGUGAGGUCU AGCUGUUG	18834
566	GAACCUAU G CAUUGUCA	3527	UGACAAUG GCCGAAAGGCGAGUGAGGUCU AUAGGUUC	18835
571	UAUGCAUU G UCAGAGCA	3528	UGCUCUGA GCCGAAAGGCGAGUGAGGUCU AAUGCAUA	18836
577	UUGUCAGA G CAAUGGAU	3529	AUCCAUUG GCCGAAAGGCGAGUGAGGUCU UCUGACAA	18837
586	CAUUGAU G UGGGAUAC	3530	GUUAUCCA GCCGAAAGGCGAGUGAGGUCU AUCCAUUG	18838
597	GAUAACAU G UGCGAUGA	3531	UCAUCGCA GCCGAAAGGCGAGUGAGGUCU AUGUAUCC	18839
599	AUAUGUU G CGAUGAUA	3532	UAUCAUCG GCCGAAAGGCGAGUGAGGUCU ACAUGUAU	18840
623	UUAUGAAU G CCCAGUGC	3533	GCACUGGG GCCGAAAGGCGAGUGAGGUCU AUUCADAA	18841
628	AAUGCCA G UGUGUUCG	3534	CGACAGCA GCCGAAAGGCGAGUGAGGUCU UGGGCAUU	18842
630	UGCCCAUG G CUGUCGCG	3535	GCCGACAG GCCGAAAGGCGAGUGAGGUCU ACUGGGCA	18843
633	CCAGUGCU G UCGGCUUG	3536	CCAGCCGA GCCGAAAGGCGAGUGAGGUCU AGCACUGG	18844
637	UGCUGUCG G CUGGUAAU	3537	AUUACCAG GCCGAAAGGCGAGUGAGGUCU CGACAGCA	18845

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641	GUUGGUG G UAAUGAUC	3538	GAUCAUA GCCGAAAGGCGAGUGAGGUCU CAGCCGAC	18846
665	CAUCGACU G UUGGUGCA	3539	UGCACCAA GCCGAAAGGCGAGUGAGGUCU AGUCGAGU	18847
669	GACUGUG G UGCACAAA	3540	UUUGUGCA GCCGAAAGGCGAGUGAGGUCU CAACAGUC	18848
671	GUUGUGU G CACAAAGU	3541	ACUUUGUG GCCGAAAGGCGAGUGAGGUCU ACCAACAG	18849
678	UGCACAA G UCAGCAGU	3542	ACUGCUGA GCCGAAAGGCGAGUGAGGUCU UUUGUGCA	18850
682	CAAAGUCA G CAGUCUAC	3543	UAGAGACU GCCGAAAGGCGAGUGAGGUCU UGACUUUG	18851
685	AGUCAGCA G UCUACGUC	3544	GACGUAGA GCCGAAAGGCGAGUGAGGUCU UGCUGACU	18852
691	CAGUCUAC G UCAGGUU	3545	AUACCUGA GCCGAAAGGCGAGUGAGGUCU GUAGACUG	18853
696	UACGUCAG G UAUGGAAG	3546	CUUCCAUU GCCGAAAGGCGAGUGAGGUCU GUAGCUGA	18854
707	UGGAAGAU G CACCAAGA	3547	UCUUGGUG GCCGAAAGGCGAGUGAGGUCU AUCUUCCA	18855
719	CAAGACAC G CCACUCAA	3548	UUGAGUGG GCCGAAAGGCGAGUGAGGUCU GUGUCUUG	18856
731	CUCAGAC G CAGUCGGA	3549	UCCGACUG GCCGAAAGGCGAGUGAGGUCU GUCUUUGAG	18857
734	AAGACGCA G UCGGAGGU	3550	ACUCCCGA GCCGAAAGGCGAGUGAGGUCU CUCGUCUU	18858
741	AGUCGAG G UCACUGAC	3551	GUCAGUGA GCCGAAAGGCGAGUGAGGUCU UGCUGACU	18859
751	CACUGACA G UGCAGACA	3552	UGUCUGCA GCCGAAAGGCGAGUGAGGUCU UGUCAGUG	18860
753	CUGACAGU G CAGACACA	3553	UGUGUCUG GCCGAAAGGCGAGUGAGGUCU ACUGUCAG	18861
770	CGGAGANA G CACUCUAG	3554	CUAGAGUG GCCGAAAGGCGAGUGAGGUCU UUUCUCCG	18862
778	GCACUCUA G CGAACAA	3555	CUUGUUGG GCCGAAAGGCGAGUGAGGUCU UGUCACUC	18863
793	AGAGGGG G CUUGGAUG	3556	CAUCCAA G GCCGAAAGGCGAGUGAGGUCU CCCCUCU	18864
806	GAUGGACA G CACCAAGG	3557	CCUUGGUG GCCGAAAGGCGAGUGAGGUCU CUUGGUGC	18865
814	GCACCAAG G CCACAAGG	3558	CUUGUGG GCCGAAAGGCGAGUGAGGUCU CUUGGUGC	18866
822	GCACCAAG G UAUUUGGU	3559	ACCAAUUA GCCGAAAGGCGAGUGAGGUCU CUUGGUGC	18867
829	GUUAUUG G UAAAAACA	3560	UGUUUUUA GCCGAAAGGCGAGUGAGGUCU CAAAUACC	18868
868	CUGGAUUA G CCUGGUG	3561	CACGAGG GCCGAAAGGCGAGUGAGGUCU AUAUCCAG	18869
874	AUGCCUG G UGGCAGCC	3562	GGCUGCCA GCCGAAAGGCGAGUGAGGUCU CAGGGCAU	18870
877	CCUGGUG G CAGCCGUC	3563	GACGGCUG GCCGAAAGGCGAGUGAGGUCU CACCAGG	18871
880	UGGUGGCA G CCGUCAU	3564	AUAGACG GCCGAAAGGCGAGUGAGGUCU UGCCACCA	18872
883	UGGCAGCC G UCAUUGU	3565	ACCAUUA GCCGAAAGGCGAGUGAGGUCU GGCUGCCA	18873
890	CGUCAUUG G UUGGAUGC	3566	GCAUCCAA GCCGAAAGGCGAGUGAGGUCU CUAUGACG	18874
897	GUUGGAU G CUUGGGAG	3567	CUCCCAAG GCCGAAAGGCGAGUGAGGUCU AUCCNACC	18875
905	GCUUGGA G CAACACCA	3568	UGGUGUUG GCCGAAAGGCGAGUGAGGUCU UCCCAAGC	18876
915	AACACCAU G CAGAGAGU	3569	ACUCUCUG GCCGAAAGGCGAGUGAGGUCU AUGGUGUU	18877
922	UGCAGAGA G UUUGUUUU	3570	AAACACAA GCCGAAAGGCGAGUGAGGUCU UCUCUGCA	18878
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GCCGAAAGGCGAGUGAGGUCU AACUCUCU	18879
927	AGAUUUU G UUUGUCGU	3572	ACGACAAA GCCGAAAGGCGAGUGAGGUCU AACACUCU	18880
931	UUUGUUUU G UCGUGCUA	3573	UAGCAGCA GCCGAAAGGCGAGUGAGGUCU AACACAA	18881
934	UGUUUGUC G UGUUUGU	3574	CAAUAGCA GCCGAAAGGCGAGUGAGGUCU GACAAACA	18882
936	UUUGUGU G CUUUGUCU	3575	AGCAUAG GCCGAAAGGCGAGUGAGGUCU ACGACAAA	18883
942	GUGCUAUU G CUUUUGGU	3576	ACCAAAAG GCCGAAAGGCGAGUGAGGUCU AAUAGCAC	18884
949	UGCUUUUG G UGGCCCCA	3577	UGGGGCCA GCCGAAAGGCGAGUGAGGUCU CAAAGCA	18885

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952	UUUUGGUG G CCCAGCU	3578	AGCUGGGG GCCGAAAGGCGAGUGAGGUCU CACCAAAA	18886
958	UGGCCCCA G CUUACAGC	3579	GCUGUAG GCCGAAAGGCGAGUGAGGUCU UGGGGCCA	18887
965	AGCUUACA G CUUCAUCU	3580	AGUUGNAG GCCGAAAGGCGAGUGAGGUCU UGUUAGCU	18888
974	CUUCAACU G CCUUGGAA	3581	UUCCAAGG GCCGAAAGGCGAGUGAGGUCU AGUUGNAG	18889
986	UGGAAGA G CAACAGAG	3582	CUCUGUUG GCCGAAAGGCGAGUGAGGUCU UCAUUCUA	18890
1009	UGGAAGGA G UGUCUGGA	3583	UCCAGACA GCCGAAAGGCGAGUGAGGUCU UCCUUCUA	18891
1011	GAAGGAGU G UCUGGAGC	3584	GUCCAGA GCCGAAAGGCGAGUGAGGUCU ACUCCUDC	18892
1018	UGUCUGGA G CAACAUGG	3585	CCAUGUUG GCCGAAAGGCGAGUGAGGUCU UCCAGACA	18893
1027	CAACAUGG G UGGAUUUG	3586	CHAAUCCA GCCGAAAGGCGAGUGAGGUCU CCAUGUUG	18894
1036	UGGAUUUG G UUCUCGAA	3587	UUCGAGAA GCCGAAAGGCGAGUGAGGUCU CHAAUCCA	18895
1046	UUCGGAAG G CGACAGCU	3588	AGCUGUCG GCCGAAAGGCGAGUGAGGUCU CUUCGAGA	18896
1052	AGCGACA G CGCGUGA	3589	UCACGCAG GCCGAAAGGCGAGUGAGGUCU UGUCGCCU	18897
1055	CGACAGCU G CUGACUA	3590	UAGUCAG GCCGAAAGGCGAGUGAGGUCU AGCUGUCG	18898
1057	ACAGTUC G UGACUAUC	3591	GAUAGUCA GCCGAAAGGCGAGUGAGGUCU GCAGCUGU	18899
1068	ACUAUCAU G UCUAAGGA	3592	UCCUUAAG GCCGAAAGGCGAGUGAGGUCU AUGAUAGU	18900
1080	AAGGACAA G CCUACCAU	3593	AUGGUAGG GCCGAAAGGCGAGUGAGGUCU UUGUCCUU	18901
1093	CCAUCGAU G UGAAGAU	3594	CAUCUUA GCCGAAAGGCGAGUGAGGUCU AUCGAUGG	18902
1114	AUAUGGAG G CGGUCAAC	3595	GUUGACCG GCCGAAAGGCGAGUGAGGUCU CUCCAUAU	18903
1117	UGGAGCG G UCAACCG	3596	CAGGUUGA GCCGAAAGGCGAGUGAGGUCU CGCUCUA	18904
1126	UCAACCG G CAGAGGUC	3597	GACCUUG GCCGAAAGGCGAGUGAGGUCU CAGGUUGA	18905
1132	UGGCAGAG G UCCGCGAU	3598	ACUGCGGA GCCGAAAGGCGAGUGAGGUCU CUUCGCCA	18906
1136	AGAGGUCC G CAGUUAU	3599	AAUAACUG GCCGAAAGGCGAGUGAGGUCU GGACCCU	18907
1139	GGUCCGA G UUAUUGCU	3600	AGCAUUA GCCGAAAGGCGAGUGAGGUCU UGCGGACC	18908
1145	CAGUUAU G CUAUUUG	3601	CCAAUAG GCCGAAAGGCGAGUGAGGUCU AAUAACUG	18909
1153	GCUAUUUG G CUACCGUC	3602	GACGGUAG GCCGAAAGGCGAGUGAGGUCU CHAAUAGC	18910
1159	UGGCUACC G UCAGCGAU	3603	AUCGCUGA GCCGAAAGGCGAGUGAGGUCU GGUAGCCA	18911
1163	UACCGUA G CGAUCUCU	3604	AGAGUUG GCCGAAAGGCGAGUGAGGUCU UGACGGUA	18912
1180	CCACCAA G CUGCGUC	3605	GCACGCAG GCCGAAAGGCGAGUGAGGUCU UUUUGUGG	18913
1183	CCAAAGCU G CGUGCCCG	3606	CGGGCAG GCCGAAAGGCGAGUGAGGUCU AGCUUUGG	18914
1185	AAAGCUCG G UGCCGAC	3607	GUCGGCA GCCGAAAGGCGAGUGAGGUCU GCAGCUUU	18915
1187	AGCUGGU G CCCGACCA	3608	UGGUCGGG GCCGAAAGGCGAGUGAGGUCU ACGCAGCU	18916
1204	UGGAGAA G CUCACAU	3609	AUUGUAG GCCGAAAGGCGAGUGAGGUCU UUCUCCCA	18917
1220	UGACAAAC G UGCUAGCC	3610	GGUCAGCA GCCGAAAGGCGAGUGAGGUCU GUUUGUA	18918
1222	ACAAGGU G CUGACCCA	3611	UGGUCAG GCCGAAAGGCGAGUGAGGUCU ACGUUUGU	18919
1231	CUGACCA G CUUUUGUG	3612	CACAAAG GCCGAAAGGCGAGUGAGGUCU UGGGUCAG	18920
1237	CAGCUUUU G UGUGCAGA	3613	UCUGACA GCCGAAAGGCGAGUGAGGUCU AAAAGCTG	18921
1239	GCUUUUGU G UGCAGACA	3614	UGUCUGCA GCCGAAAGGCGAGUGAGGUCU ACAAAAGC	18922
1241	UUUUGUGU G CAGACAG	3615	CUUGUCUG GCCGAAAGGCGAGUGAGGUCU ACACAAAA	18923
1252	GACAAGGA G UGGUGGAC	3616	GUCCACA GCCGAAAGGCGAGUGAGGUCU UCCUUGUC	18924
1255	AAGGAGUG G UGGACAGG	3617	CCUGUCCA GCCGAAAGGCGAGUGAGGUCU CACUCCUU	18925

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1265	GGACAGG G CUGGGGA	3618	UGCCCCAG GCCGAAAGCGAGUGAGGUCU CCUGUCC	18926
1271	GGGCUGG G CAACGGU	3619	AGCCGUUG GCCGAAAGCGAGUGAGGUCU CCAGGCC	18927
1277	GGGCAAG G CUGCGAU	3620	AUCCGCAG GCCGAAAGCGAGUGAGGUCU CGUUGCCC	18928
1280	CAACGGU G CGGAUUAU	3621	AUAUUCG GCCGAAAGCGAGUGAGGUCU AGCCGUG	18929
1292	AUAUUG G CAAGGAA	3622	UUCUUUG GCCGAAAGCGAGUGAGGUCU CAAAUAAU	18930
1301	CAAGGAA G CAUUGACA	3623	UGUCAUUG GCCGAAAGCGAGUGAGGUCU UUCUUUG	18931
1313	UGACACAU G CGCCAAU	3624	AUUUGCG GCCGAAAGCGAGUGAGGUCU AUGUGUCA	18932
1315	ACACAUG G CCAAUUU	3625	AAUUUGG GCCGAAAGCGAGUGAGGUCU GCAUGUGU	18933
1324	CCAAUUU G CCUGUCU	3626	AGAGCAG GCCGAAAGCGAGUGAGGUCU AAUUUGG	18934
1328	AUUUGCU G CUCUACCA	3627	UGGUAGAG GCCGAAAGCGAGUGAGGUCU AGGCAAAU	18935
1339	CUACCAAG G CAAUAGGA	3628	UCCUAUUG GCCGAAAGCGAGUGAGGUCU CUUGGUAG	18936
1374	AUAUCAA G UACGAAGU	3629	ACUUCGUA GCCGAAAGCGAGUGAGGUCU UUGAUUU	18937
1381	AGUACGA G UGGCCAUU	3630	AAUGGCCA GCCGAAAGCGAGUGAGGUCU UUCGUAU	18938
1384	ACGAAGU G CCAUUUU	3631	AAAAUUG GCCGAAAGCGAGUGAGGUCU CACUUCGU	18939
1393	CCAUUUU G UCCAUGGA	3632	UCCAUGGA GCCGAAAGCGAGUGAGGUCU AAAAUUG	18940
1411	CAACUACU G UGGAGUCG	3633	CGACUCCA GCCGAAAGCGAGUGAGGUCU AGUAGUUG	18941
1416	ACUGUGA G UCGCACGG	3634	CCGUGCGA GCCGAAAGCGAGUGAGGUCU UCCACAGU	18942
1419	GUGGAGUC G CACGGAAA	3635	UUUCCUG GCCGAAAGCGAGUGAGGUCU GACUCCAC	18943
1441	CCACAG G UUGAGCC	3636	GGCUCCAA GCCGAAAGCGAGUGAGGUCU CUGUGUGG	18944
1447	AGUUGA G CCACUCAG	3637	CUGAGUG GCCGAAAGCGAGUGAGGUCU UCCAAACC	18945
1456	CCACUCAG G CAGGAGA	3638	UCUCCUG GCCGAAAGCGAGUGAGGUCU CUGAGUGG	18946
1469	GAGAUUCA G CAUCACUC	3639	GAGUGAUG GCCGAAAGCGAGUGAGGUCU UGAUUCU	18947
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCCG GCCGAAAGCGAGUGAGGUCU AGGAGUGA	18948
1483	CUCUGCG G CGCCTUCA	3641	UGAAGCG GCCGAAAGCGAGUGAGGUCU CGCAGGAG	18949
1485	CCUGCGC G CCUACAUA	3642	UAUGAAG GCCGAAAGCGAGUGAGGUCU GCCGCAGG	18950
1503	ACACUAAA G CUUGGAGA	3643	UCUCCAG GCCGAAAGCGAGUGAGGUCU UUUAGUGU	18951
1522	AUGGAG G UGACAGUG	3644	CACUGUA GCCGAAAGCGAGUGAGGUCU CUCUCCAU	18952
1528	AGUGACA G UGGACUGU	3645	ACAGUCCA GCCGAAAGCGAGUGAGGUCU UGUCAACU	18953
1535	AGUGGACU G UGAACCCAC	3646	GUGGUUCA GCCGAAAGCGAGUGAGGUCU AGUCCACU	18954
1545	GAACCAAG G UCAGGGAU	3647	AUCCUGA GCCGAAAGCGAGUGAGGUCU CGUGGUUC	18955
1564	ACACCAU G CAUACUAC	3648	GUAGUAUG GCCGAAAGCGAGUGAGGUCU AUUGGUGU	18956
1573	CAUACUAC G UGAUGACU	3649	AGUCAUCA GCCGAAAGCGAGUGAGGUCU GUAGUAUG	18957
1582	UGAUGACU G UUGAAACA	3650	UGUCCAA GCCGAAAGCGAGUGAGGUCU GUCUUUGU	18958
1596	ACAAAG G UUCUUUGU	3651	ACCAAGAA GCCGAAAGCGAGUGAGGUCU CAAAGAACG	18959
1603	CGUUCUG G UCCAUUGU	3652	ACGAUGGA GCCGAAAGCGAGUGAGGUCU GAUGAACG	18960
1610	GGUCCAUC G UGAGUGGU	3653	ACCAUCA GCCGAAAGCGAGUGAGGUCU GAUGAACG	18961
1614	CAUGGUGA G UGUUUAU	3654	AUGAACCA GCCGAAAGCGAGUGAGGUCU UCACGACG	18962
1617	CGUGAGUG G UUCAUGGA	3655	UCCAUGAA GCCGAAAGCGAGUGAGGUCU CACUACG	18963
1643	CCUUGGA G CAGUGCUG	3656	CAGCACUG GCCGAAAGCGAGUGAGGUCU UCCAAAGG	18964
1646	UUGGAGCA G UGUGGAA	3657	UUCACGCA GCCGAAAGCGAGUGAGGUCU UGCUCCAA	18965

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1648	GGAGCAGU G CUGGAAGU	3658	ACUCCAG GCCGAAAGGCGAGUGAGGUCU ACUGCUCC	18966
1655	UGCUGGAA G UACUGUGU	3659	ACACAGUA GCCGAAAGGCGAGUGAGGUCU UUCGAGCA	18967
1660	GAAGUACU G UGUGGAGG	3660	CUCCACA GCCGAAAGGCGAGUGAGGUCU AGUACUUC	18968
1662	AGUACU G UGGAGGAA	3661	UUCUCUCA GCCGAAAGGCGAGUGAGGUCU ACAGUACU	18969
1680	AGAGAGAC G UUAUUGGA	3662	UCCAUUAA GCCGAAAGGCGAGUGAGGUCU GUCUCUCU	18970
1689	UUAUUGGA G UUUGAGGA	3663	UCCUCAAA GCCGAAAGGCGAGUGAGGUCU UCCAUUAA	18971
1705	AACCACAC G CCACGAAG	3664	CUUCGUG GCCGAAAGGCGAGUGAGGUCU GUGUGGUU	18972
1713	GCCACGAA G CAGUCUGU	3665	ACAGACUG GCCGAAAGGCGAGUGAGGUCU UUCGUGGC	18973
1716	ACGAAGCA G UCUGUGAU	3666	AUCACAGA GCCGAAAGGCGAGUGAGGUCU UGCUUCGU	18974
1720	AGCAGUCU G UGAUAGCA	3667	UGCUAUCA GCCGAAAGGCGAGUGAGGUCU AGACUGCU	18975
1726	CUGUGUAU G CAUUGGCG	3668	GCCCAUG GCCGAAAGGCGAGUGAGGUCU UAUACACAG	18976
1733	AGCAUUG G CUCACAAG	3669	CUUGUGAG GCCGAAAGGCGAGUGAGGUCU CCAUAGCU	18977
1747	AAGAGGGA G CUCUGCAU	3670	AUCAGAG GCCGAAAGGCGAGUGAGGUCU UCCUCUUC	18978
1752	GGAGCUCU G CAUCAAGC	3671	GCUGAUG GCCGAAAGGCGAGUGAGGUCU AGAGCUCC	18979
1759	UGCAUCAA G CUUUGGCU	3672	AGCCAAAG GCCGAAAGGCGAGUGAGGUCU UUGAUGCA	18980
1765	AAGCUUG G CUGGAGCC	3673	GGCUCCAG GCCGAAAGGCGAGUGAGGUCU CAAAGCUU	18981
1771	UGGCUGGA G CCAUUCU	3674	AGGAUUG GCCGAAAGGCGAGUGAGGUCU UCCAGCCA	18982
1780	CAUUCU G UGGAUUU	3675	AAAUUCCA GCCGAAAGGCGAGUGAGGUCU AGGAUUGG	18983
1793	AUUUCAA G CAACAGU	3676	CAGUGUUG GCCGAAAGGCGAGUGAGGUCU UUGAAAAU	18984
1801	GCAACACU G UCAAGUUG	3677	CAACUUGA GCCGAAAGGCGAGUGAGGUCU AGUGUUGC	18985
1806	ACUGUCAA G UUGACGUC	3678	GACGUCAA GCCGAAAGGCGAGUGAGGUCU UUGACAGU	18986
1812	AAGUAGAC G UCGGGUCA	3679	UGACCCGA GCCGAAAGGCGAGUGAGGUCU GUCAACUU	18987
1817	GACGUUG G UCAUUUGA	3680	UCAAAUGA GCCGAAAGGCGAGUGAGGUCU CCGACGUC	18988
1827	CAUUUGAA G UGAGAGU	3681	ACUCUACA GCCGAAAGGCGAGUGAGGUCU UUCAAAUG	18989
1829	UUUGAAGU G UAGAGUGA	3682	UACUCUA GCCGAAAGGCGAGUGAGGUCU ACUUCAAA	18990
1834	AGUGUAGA G UAGAGUAG	3683	CAUCUUA GCCGAAAGGCGAGUGAGGUCU UCUAACAU	18991
1851	GAUAAAU G CAGUUGAA	3684	UUCAACUG GCCGAAAGGCGAGUGAGGUCU AAUUUUUC	18992
1854	AAAUUGCA G UUGAAGGG	3685	CCUUCUAA GCCGAAAGGCGAGUGAGGUCU UGCAAUUU	18993
1874	AACCUAUG G CGUCUGUU	3686	AACAGACG GCCGAAAGGCGAGUGAGGUCU CAUAGGUU	18994
1876	CCUAGGCG G UCUGUUA	3687	UGAACAGA GCCGAAAGGCGAGUGAGGUCU GCCAUAGG	18995
1880	UGGCGUCU G UUCAAAGG	3688	CCUUUGAA GCCGAAAGGCGAGUGAGGUCU AGACGCCA	18996
1888	GUUCAAG G CUUUCAAAG	3689	CUUGAAAG GCCGAAAGGCGAGUGAGGUCU CUUUGAAC	18997
1896	GCUUUCAA G UUUCUUGG	3690	CCAAGAAA GCCGAAAGGCGAGUGAGGUCU UUGAAAGC	18998
1912	GGACUCCC G CAGACACA	3691	UGUGUCUG GCCGAAAGGCGAGUGAGGUCU GGGAGUCC	18999
1922	AGACACAG G UCACGGCA	3692	UGCCGUGA GCCGAAAGGCGAGUGAGGUCU CUGUGUCU	19000
1928	AGGUCACG G CACUGUGG	3693	CCACAGUG GCCGAAAGGCGAGUGAGGUCU CGUGACCU	19001
1933	ACGGCACU G UGUGUUGG	3694	CAACACCA GCCGAAAGGCGAGUGAGGUCU AGUGCCGU	19002
1936	GCACUGUG G UGUUGGAA	3695	UUCCAACA GCCGAAAGGCGAGUGAGGUCU CACAGUGC	19003
1938	ACUGUGGU G UUGGAUUU	3696	AAUCCAA GCCGAAAGGCGAGUGAGGUCU ACCACAGU	19004
1947	UUGGAUU G CAGUACAC	3697	GUGUACUG GCCGAAAGGCGAGUGAGGUCU AAUUCCAA	19005

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1950	GAUUGCA G UACACUGG	3698	CCAGUGUA GCCGAAAGCGAGUGAGGUCU UGCAAUUC	19006
1958	GUACACUG G CACGGAUG	3699	CAUCCGUG GCCGAAAGCGAGUGAGGUCU CAGUGUAC	19007
1973	UGGACCUU G CAAAGUUC	3700	GAACUUUG GCCGAAAGCGAGUGAGGUCU AAGUCCA	19008
1978	CUUGCAAA G UUCCUAUC	3701	GAUAGGAA GCCGAAAGCGAGUGAGGUCU UUUGCAA	19009
1989	CCUAUCUC G UAGUGGC	3702	GCCACUGA GCCGAAAGCGAGUGAGGUCU GAGUAAGG	19010
1993	UCUCGUCA G UGGCUUCA	3703	UGAAGCCA GCCGAAAGCGAGUGAGGUCU UGACGAGA	19011
1996	CGUCAGUG G CUUCAUUG	3704	CAAUGAAG GCCGAAAGCGAGUGAGGUCU CACUGACG	19012
2016	GACCUAAC G CCAGUGGG	3705	CCCACUGG GCCGAAAGCGAGUGAGGUCU GUUAGGUC	19013
2020	UAACGCCA G UGGGCAGA	3706	UCUGCCCA GCCGAAAGCGAGUGAGGUCU UGGCGUUA	19014
2024	GCCAGUGG G CAGAUUGG	3707	CCAUUCUG GCCGAAAGCGAGUGAGGUCU CCACUGGC	19015
2032	GCAGAUUG G UCACUGUC	3708	GACAGUGA GCCGAAAGCGAGUGAGGUCU CAAUCUGC	19016
2038	UGGUACUC G UCAACCCU	3709	AGGGUUGA GCCGAAAGCGAGUGAGGUCU AGUGACCA	19017
2050	ACCCUUUU G UUCACAGU	3710	CACUGAAA GCCGAAAGCGAGUGAGGUCU UGAAACAA	19018
2056	UUGUUUCA G UGGCCACG	3711	CGUGGCCA GCCGAAAGCGAGUGAGGUCU AAAAGGGU	19019
2059	UUUCAGUG G CCAGGGCC	3712	GGCCGUGG GCCGAAAGCGAGUGAGGUCU CACUGAAA	19020
2065	UGGCCACG G CCAACGCU	3713	AGCGUUGG GCCGAAAGCGAGUGAGGUCU CGUGGCCA	19021
2071	CGGCCAAC G CUAAGGUC	3714	GACCUUAG GCCGAAAGCGAGUGAGGUCU GUUGGCCG	19022
2077	ACGCUAAG G UCCUGAUU	3715	AAUCAGGA GCCGAAAGCGAGUGAGGUCU CUUAGCGU	19023
2119	CAUACAUA G UGUGGGCC	3716	GCCACACA GCCGAAAGCGAGUGAGGUCU CACUAUGU	19024
2122	ACAUAGAA G CAGAGGAG	3717	UCUGCCCA GCCGAAAGCGAGUGAGGUCU CCACACU	19025
2126	AGUGGUGG G CAGAGGAG	3718	CUCUCUUG GCCGAAAGCGAGUGAGGUCU CAAUGGUG	19026
2157	CACCAUUG G CACAAGUC	3719	GACUUUGG GCCGAAAGCGAGUGAGGUCU UUGGCCA	19027
2163	UGGCACAA G UCUGGAAG	3720	CUUCACGA GCCGAAAGCGAGUGAGGUCU UCCAGAC	19028
2171	GUUGGAA G CAGCAUUG	3721	CAAUGCUG GCCGAAAGCGAGUGAGGUCU UGCUUCCA	19029
2174	UGGAAGCA G CAUUGGCA	3722	UGCCAUUG GCCGAAAGCGAGUGAGGUCU UGCUUCCA	19030
2180	CAGCAUUG G CAAAGCCU	3723	AGGCUUUG GCCGAAAGCGAGUGAGGUCU CAAUGCUG	19031
2185	UUGGCAAA G CCUUUACA	3724	UGUAAAGG GCCGAAAGCGAGUGAGGUCU UUUGCCAA	19032
2209	UCAAAGGA G CGCAGAGA	3725	UCUCUCUG GCCGAAAGCGAGUGAGGUCU UCCUUUGA	19033
2211	AAAGGAGC G CAGAGACU	3726	AGUCUCUG GCCGAAAGCGAGUGAGGUCU GCUCUUU	19034
2221	AGAGACUA G CCGCUCUA	3727	UAGAGCGG GCCGAAAGCGAGUGAGGUCU UAGUCUCU	19035
2224	GACUAGCC G CUCUAGGA	3728	UCCUAGAG GCCGAAAGCGAGUGAGGUCU GGCUAGUC	19036
2239	GAGACACA G CUUGGGAC	3729	GUCCCAAG GCCGAAAGCGAGUGAGGUCU UGUGUCUC	19037
2257	UUGGAUCA G UUGGAGGG	3730	CCUCCCAA GCCGAAAGCGAGUGAGGUCU UGAUCCAA	19038
2266	UUGGAGGG G UGUUCACC	3731	GGUGAACA GCCGAAAGCGAGUGAGGUCU CCUCUCAA	19039
2268	GGAGGGGU G UUCACCTUC	3732	GAGGUGAA GCCGAAAGCGAGUGAGGUCU ACCCUCC	19040
2278	UCACCUCA G UUGGGUAG	3733	CUUCCCAA GCCGAAAGCGAGUGAGGUCU UGAGGUGA	19041
2287	UUGGGUAG G CUGUCCAU	3734	AUGGACAG GCCGAAAGCGAGUGAGGUCU CUUCCCAA	19042
2290	GGAAGGU G UCCAUCNA	3735	UUGAUGGA GCCGAAAGCGAGUGAGGUCU AGCCUCC	19043
2299	UCCAUCAA G UGUUCGGA	3736	UCCGAACA GCCGAAAGCGAGUGAGGUCU UUGAUGGA	19044
2301	CAUCAAGU G UUCGGAGG	3737	CCUCCGAA GCCGAAAGCGAGUGAGGUCU ACUUGAUG	19045

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2311	UCGAGGA G CAUUCGC	3738	GCGAAUG GCGAAAGCGAGUGAGGUCU UCCUCCGA	19046
2318	AGCAUUC G CUCACUGU	3739	ACAGUGAG GCGAAAGCGAGUGAGGUCU GGAUUGCU	19047
2325	CGCUCACU G UUCGAGG	3740	CCUCCGAA GCGAAAGCGAGUGAGGUCU AGUGAGCG	19048
2333	GUUCGAG G CAUGUCCU	3741	AGGACAU G GCGAAAGCGAGUGAGGUCU CUCGGAAC	19049
2337	GGAGCAU G UUCUGAU	3742	AUCCAGGA GCGAAAGCGAGUGAGGUCU AUGCCUCC	19050
2349	UGGAUAAC G CAAGGAU	3743	AAUCCUUG GCGAAAGCGAGUGAGGUCU GUUAUCCA	19051
2358	CAAGGAU G CUGGGGC	3744	GCCCCCAG GCGAAAGCGAGUGAGGUCU CCCCAGCA	19052
2365	UGCUGGG G CUCUCCUG	3745	CAGGAGAG GCGAAAGCGAGUGAGGUCU CCCCAGCA	19053
2373	GCUCUCCU G UUGUGAU	3746	AUCCACAA GCGAAAGCGAGUGAGGUCU AACAGGAG	19054
2376	CUCUCUGU G UGGAUGG	3747	CCCAUCCA GCGAAAGCGAGUGAGGUCU AACAGGAG	19055
2384	GUGGAUG G CAUCAU	3748	CAUUGAUG GCGAAAGCGAGUGAGGUCU CCAUCCAC	19056
2392	CGAUAU G CUCUGAU	3749	AUCCAGAG GCGAAAGCGAGUGAGGUCU AUGAUGC	19057
2396	CAAUGCUC G UGAUAGU	3750	ACCUAUA GCGAAAGCGAGUGAGGUCU GAGCAUUG	19058
2403	CGUGAUG G UCCAUGG	3751	GCUAUGGA GCGAAAGCGAGUGAGGUCU CUAUCACG	19059
2410	GGUCCAUA G CUCUCACG	3752	CGUGAGAG GCGAAAGCGAGUGAGGUCU UAUAGACC	19060
2418	GCUCUCAC G UUCUCGC	3753	GCGAGAAA GCGAAAGCGAGUGAGGUCU GUGAGAGC	19061
2425	CGUUCUC G CAGUUGA	3754	UCCAAUCU GCGAAAGCGAGUGAGGUCU UGCAGAGAA	19062
2428	UUCUCGCA G UUGAGGA	3755	UCCUCCAA GCGAAAGCGAGUGAGGUCU UCCUCCAA	19063
2437	GGAGUUCU G CUCUUCU	3756	GAGCAGAA GCGAAAGCGAGUGAGGUCU AGAACUCC	19064
2442	GGAGUUCU G UGAACGUG	3757	AGGAAGAG GCGAAAGCGAGUGAGGUCU GGAAGAGGA	19065
2455	UCCUCUCC G UGCACGCU	3758	CACGUUCA GCGAAAGCGAGUGAGGUCU GUUCACGG	19066
2461	CCGUGAAC G UGCACGCU	3759	AGCUGUCA GCGAAAGCGAGUGAGGUCU ACGUUCAC	19067
2463	GUGAACGU G CAGCUGA	3760	UCAGCGUG GCGAAAGCGAGUGAGGUCU GUGCACGU	19068
2467	ACGUGCAC G CUGACACU	3761	AGUGUCAG GCGAAAGCGAGUGAGGUCU CCAUGUUC	19069
2478	GACACUG G UGUGCCAU	3762	AUGGCACA GCGAAAGCGAGUGAGGUCU ACCAGUG	19070
2480	CACUGGGU G UGCCAUAG	3763	CUAUGGCA GCGAAAGCGAGUGAGGUCU ACACCCAG	19071
2482	CUGGGUGU G CCAUAGAC	3764	GUUUAUGG GCGAAAGCGAGUGAGGUCU UGAUGUCU	19072
2495	AGACAUA G CCGGCAAG	3765	CUUGCCGG GCGAAAGCGAGUGAGGUCU CCGCUGAU	19073
2499	AUCAGCG G CAAGAGCU	3766	AGCUUUG GCGAAAGCGAGUGAGGUCU UCUUGCCG	19074
2505	CGGCAAG G CUGAGAU	3767	CAUCUCAG GCGAAAGCGAGUGAGGUCU AUCUCAGC	19075
2513	GCUGAGAU G UGGAUGU	3768	CACUCCA GCGAAAGCGAGUGAGGUCU UCCACAU	19076
2519	AUGUGGAA G UGAGUGU	3769	ACAUCCA GCGAAAGCGAGUGAGGUCU UCCACAU	19077
2524	GAAGUGA G UGUUCAUA	3770	UAUGAACA GCGAAAGCGAGUGAGGUCU UCCACUUC	19078
2526	AGUGGAGU G UGAUAACA	3771	UGUAUGAA GCGAAAGCGAGUGAGGUCU ACUCACU	19079
2542	ACAAUGAU G UGAGGCU	3772	AGCCUCCA GCGAAAGCGAGUGAGGUCU AUCAUUGU	19080
2548	AUGUGGAG G CUUGGAGU	3773	CAUCCAAG GCGAAAGCGAGUGAGGUCU CUCCACAU	19081
2562	AUGGACCG G UACNAGUA	3774	UACUUGUA GCGAAAGCGAGUGAGGUCU CGGUCCAU	19082
2568	CGGUACAA G UAUUACCC	3775	GGGUAUA GCGAAAGCGAGUGAGGUCU UUGUACCG	19083
2583	CCUGAAC G CCACAAGG	3776	CCUUGUG GCGAAAGCGAGUGAGGUCU GUUUCAGG	19084
2591	GCCACAAG G CCUAGCCA	3777	UGGCUAGG GCGAAAGCGAGUGAGGUCU CUUGUGGC	19085

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2596	AAGGCCUA G CCAAGAU	3778	GAUCUUG GCCGAAAGCGAGUGAGGUU UAGGCCUU	19086
2614	UUCAGAAA G CUCAUAA	3779	CUUAUG GCCGAAAGCGAGUGAGGUU UUCUGAA	19087
2629	AGGAAGGA G UGUCGGU	3780	ACCGCACA GCCGAAAGCGAGUGAGGUU UCCUUCUU	19088
2631	GAAGGAGU G UGCGGUCU	3781	AGACCGCA GCCGAAAGCGAGUGAGGUU ACUCCUUC	19089
2633	AGGAGUGU G CGUUCUAC	3782	GUAGACCG GCCGAAAGCGAGUGAGGUU ACACUCCU	19090
2636	AGUGUGCG G UCUACGAU	3783	AUCGUAGA GCCGAAAGCGAGUGAGGUU CGCACACU	19091
2647	VACGAUCA G UUUCCAGA	3784	UCUGGAAA GCCGAAAGCGAGUGAGGUU UGAUCGUA	19092
2661	AGACUGGA G CAUCAAAU	3785	AUUUGAUG GCCGAAAGCGAGUGAGGUU UCCAGUCU	19093
2670	CAUCAAAU G UGGGAAGC	3786	GUUCACUG GCCGAAAGCGAGUGAGGUU UCCACACA	19094
2677	UGUGGGA G CAGUGAAG	3787	GUCCUUA GCCGAAAGCGAGUGAGGUU UCGUCCCU	19095
2680	GGGAAGCA G UGAAGGAC	3788	GUGUUCAG GCCGAAAGCGAGUGAGGUU CAUUCUCC	19096
2691	AAGGACGA G CUGAACAC	3789	GGUCCACA GCCGAAAGCGAGUGAGGUU ACCAUUCU	19097
2717	GGAGAAUG G UGGACCU	3790	AAGGUCCA GCCGAAAGCGAGUGAGGUU UAGGUCCU	19098
2719	AGAAUGGU G UGGACCU	3791	CCACGACA GCCGAAAGCGAGUGAGGUU ACUAAGGU	19099
2729	GGACCUUA G UGUCGUGG	3792	AACCCAGA GCCGAAAGCGAGUGAGGUU GACACUAA	19100
2731	ACCUUAGU G UGUGGUU	3793	CUCAACCA GCCGAAAGCGAGUGAGGUU CACGACAC	19101
2734	UUAGUGUC G UGGUUGAG	3794	UUUCUCAA GCCGAAAGCGAGUGAGGUU AUUCCUCC	19102
2737	GUGUCGUG G UUGAGAAA	3795	GACUUGUA GCCGAAAGCGAGUGAGGUU UUGUACAU	19103
2757	GAGGAUA G UCAAGUC	3796	GGUGUGGA GCCGAAAGCGAGUGAGGUU UGACUUGU	19104
2763	AUGUACAA G UCAGCAC	3797	UUUAGGUG GCCGAAAGCGAGUGAGGUU GUUAGGUG	19105
2767	ACRAUGCA G CACCUAAA	3798	CGUGAGG GCCGAAAGCGAGUGAGGUU GGUAGGCG	19106
2777	ACCUAAAC G CCUCACCG	3799	CGUGUGG GCCGAAAGCGAGUGAGGUU CAUUCUCC	19107
2785	GCCUACG G CCACACG	3800	CUUCCAG GCCGAAAGCGAGUGAGGUU GAGUUCUG	19108
2810	GGAAUUG G CUGGAAG	3801	UCCCCAG GCCGAAAGCGAGUGAGGUU CAAUUCUCC	19109
2818	GCUGGAAG G CCUGGGGA	3802	AUAAAUA GCCGAAAGCGAGUGAGGUU UCUUCCUCC	19110
2831	GGGAAAGA G UAUUUUAU	3803	UUUGUGG GCCGAAAGCGAGUGAGGUU AAAUAAAA	19111
2842	UUUUUUU G CACAGAA	3804	GUUGUUG GCCGAAAGCGAGUGAGGUU GAGUUCUG	19112
2854	CAGAAUC G CCAACAAC	3805	AUCAACCA GCCGAAAGCGAGUGAGGUU AAAGGUGU	19113
2869	ACACUUU G UGGUUGAU	3806	ACCAUCA GCCGAAAGCGAGUGAGGUU CACAAAGG	19114
2872	CCUUUGU G UGAUGGU	3807	UCUCCGA GCCGAAAGCGAGUGAGGUU CAUCAACC	19115
2879	GGUUGAU G UCCGGAGA	3808	GAGUGGA GCCGAAAGCGAGUGAGGUU AUUCCUUG	19116
2897	CAAGGAU G UCCGACUC	3809	UCCAAGCG GCCGAAAGCGAGUGAGGUU GAUUCUGA	19117
2912	UCGAAUC G CGCUUGGA	3810	AUCCAAAG GCCGAAAGCGAGUGAGGUU GCGAUUCU	19118
2924	AGAAUCG G CUUGGAU	3811	CUUCUAG GCCGAAAGCGAGUGAGGUU UAUUCCAA	19119
2924	UUGGAUA G UUGAGAAG	3812	AUCUCCA GCCGAAAGCGAGUGAGGUU UUCUAAGC	19120
2932	GCUTAGAA G UGAGGAU	3813	UGUGAGA GCCGAAAGCGAGUGAGGUU CAAAUCCA	19121
2951	UGAAUUU G UCUACCA	3814	UCCAGUG GCCGAAAGCGAGUGAGGUU UGGUGAGA	19122
2960	UCUCACCA G CACUCGGA	3815	UUCAGGAA GCCGAAAGCGAGUGAGGUU AUCCAGAU	19123
2970	ACUCGGAU G UUCUGAA	3816	CUCUCUGA GCCGAAAGCGAGUGAGGUU CUUCAGGA	19124
2980	UCCUGAAG G UCAGAGAG	3817		19125

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2990	CAGAGAGA G CACACAAA	3818	UUGUGUUG GCCGAAAGCGAGUGAGGUCU UCUCUCUG	19126
3005	AACUGAAU G UGACUCAA	3819	UCGAGUCA GCCGAAAGCGAGUGAGGUCU AUUCAGUU	19127
3028	UUGGAACG G CUGUCAAG	3820	CUUGACAG GCCGAAAGCGAGUGAGGUCU CGUUCCAA	19128
3031	GAACGGCU G UCAAGAAC	3821	GUUCUUGA GCCGAAAGCGAGUGAGGUCU AGCCGUUC	19129
3046	ACAACUUG G CGAUCCAC	3822	GUGGAUCG GCCGAAAGCGAGUGAGGUCU CAAUGUGU	19130
3056	GAUCCACA G UGACCTUGU	3823	ACAGGUCA GCCGAAAGCGAGUGAGGUCU UGUGGAUC	19131
3063	AGUGACCU G UCCUAUUG	3824	CAAUAGGA GCCGAAAGCGAGUGAGGUCU AGGUCACU	19132
3080	GAUUGAAA G CAGGCUCA	3825	UGAGCCUG GCCGAAAGCGAGUGAGGUCU UUTUCAUC	19133
3084	GAAGGACG G CUCAUUGA	3826	UCAUUGAG GCCGAAAGCGAGUGAGGUCU CUGCUUUC	19134
3096	AAUGAUAC G UGGAAGCU	3827	AGCUUCCA GCCGAAAGCGAGUGAGGUCU GUUAUCAU	19135
3102	ACGUGGAA G CUUGAAAG	3828	CUUUCAGG GCCGAAAGCGAGUGAGGUCU UUCQACGU	19136
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACUG GCCGAAAGCGAGUGAGGUCU CCTUUCAA	19137
3115	AAAGGACA G UUCUGGGU	3830	ACCCAGAA GCCGAAAGCGAGUGAGGUCU UGCCCUUU	19138
3122	AGUUCUGG G UGAAAGUA	3831	UGACUCCA GCCGAAAGCGAGUGAGGUCU UUCACCCA	19139
3127	UGGUGGAA G UCAAAUCA	3832	UGAUUGA GCCGAAAGCGAGUGAGGUCU AUGAUUUG	19140
3137	CAAAUCAU G UACGUGGC	3833	GCCACGUA GCCGAAAGCGAGUGAGGUCU GUACAUGA	19141
3141	UCAUGUAC G UGGCCUGA	3834	UCAGGCCA GCCGAAAGCGAGUGAGGUCU CACGUACA	19142
3144	UGUAGGUC G CUGAGAGC	3835	GUUCACGG GCCGAAAGCGAGUGAGGUCU AAGGUUUG	19143
3153	CTUGAGAC G CAUACCTU	3836	AAGGUUUG GCCGAAAGCGAGUGAGGUCU CCAACAAG	19144
3162	CAUACCTU G UGGGCGGA	3837	UCCGCCCC GCCGAAAGCGAGUGAGGUCU AAGGUUUG	19145
3167	CUUGUGGG G CGAUGGAA	3838	UUCCAUCG GCCGAAAGCGAGUGAGGUCU UCUCAAGG	19146
3185	CCUUGAGA G UGACUUGA	3839	UCRAGUCA GCCGAAAGCGAGUGAGGUCU UGUAUUA	19147
3202	UAAUACCA G UCAACACU	3840	CAGUGUGA GCCGAAAGCGAGUGAGGUCU CAGUGUGA	19148
3211	UCACACUG G CGGGACCA	3841	UGGUCCCC GCCGAAAGCGAGUGAGGUCU UUCUGGU	19149
3224	ACCAAGAA G CAAUACAA	3842	UGUGAUUG GCCGAAAGCGAGUGAGGUCU CCAGGUCU	19150
3246	AGACCTUG G CCAUAGAC	3843	GUUUUGUA GCCGAAAGCGAGUGAGGUCU CUUGGUUU	19151
3266	AAACCAGG G CCGGGUAG	3844	CCCAUUGG GCCGAAAGCGAGUGAGGUCU CUUCGUCC	19152
3281	GAAGCCCG G UAGAGAUU	3845	CUACCCGG GCCGAAAGCGAGUGAGGUCU CCGGCCUU	19153
3286	AAGGCCCG G UAGAGAUU	3846	AAUCUCUA GCCGAAAGCGAGUGAGGUCU AGUAAUCG	19154
3308	CGAUUACU G CCAAGGAA	3847	UUCUUGGG GCCGAAAGCGAGUGAGGUCU CGUAGUUC	19155
3322	GAACUACG G UGACAGCU	3848	CAGGUGUA GCCGAAAGCGAGUGAGGUCU UCUACUC	19156
3332	CACCCUGA G CUGCGGAC	3849	AGUCUCUA GCCGAAAGCGAGUGAGGUCU AGGUCUCC	19157
3338	GAGUGAGA G CCGGACAC	3850	GUCCGCGA GCCGAAAGCGAGUGAGGUCU AGGUCUCC	19158
3341	UGAGAGCU G UGGACCTUG	3851	GGUGUCCG GCCGAAAGCGAGUGAGGUCU GAGUGGCA	19159
3350	CGGACACC G UGGACCTUG	3852	CAGGUCCA GCCGAAAGCGAGUGAGGUCU GAGUGGCA	19160
3358	GUGGACCU G CCAUCUCC	3853	GCGAGUGG GCCGAAAGCGAGUGAGGUCU AGGUCUCC	19161
3365	UGCCACUC G CACCAACA	3854	ACUUUCCG GCCGAAAGCGAGUGAGGUCU UUCUCUGU	19162
3380	CACGAGAA G UGUAUAAC	3855	GUUAUCAA GCCGAAAGCGAGUGAGGUCU UUUCCGCU	19163
3387	ACAGAUUG G UGCUAGAG	3856	CUGCAGCA GCCGAAAGCGAGUGAGGUCU CAAUCUGU	19164
3402		3857		19165

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3404	AGAUUGU G CUGCAGGA	3858	UCCUGCAG GCCGAAAGGCGAGUGAGGUCU ACCAAUUCU	19166
3407	UUGGUGU G CAGGAGCU	3859	AGCUCCUG GCCGAAAGGCGAGUGAGGUCU AGCACCAG	19167
3413	CUGCAGGA G CUGCACCU	3860	AGGUGCAG GCCGAAAGGCGAGUGAGGUCU UCCUGCAG	19168
3416	CAGGAGCU G CACCUUAC	3861	GUAAAGGUG GCCGAAAGGCGAGUGAGGUCU AGCUCCUG	19169
3432	CCACCACU G CGCUACCA	3862	UGGUAGCG GCCGAAAGGCGAGUGAGGUCU AGUGGUGG	19170
3434	ACCACUGC G CUACCAAA	3863	UUUGGUAG GCCGAAAGGCGAGUGAGGUCU GCAGUGGU	19171
3449	AACUGACA G CGGUGUU	3864	AACAGCGG GCCGAAAGGCGAGUGAGGUCU UGUACAGU	19172
3452	UACAGCG G CUGUUGGU	3865	ACCAACAG GCCGAAAGGCGAGUGAGGUCU CGCUGUCA	19173
3455	CAGCGGU G UUGGUUUG	3866	CAUACCAA GCCGAAAGGCGAGUGAGGUCU AGCCGCGG	19174
3459	GGCUGUG G UUGGUUUG	3867	AUACCAUA GCCGAAAGGCGAGUGAGGUCU CAACAGCC	19175
3464	UUGGUUUG G UUGGUUUG	3868	UCUCCAUU GCCGAAAGGCGAGUGAGGUCU GAGGGUCU	19176
3505	AGACCCUC G UGCAGUCA	3869	UGACUGCA GCCGAAAGGCGAGUGAGGUCU AUCACACU	19177
3507	ACCCUCGU G CAGUCACA	3870	UGUGACUG GCCGAAAGGCGAGUGAGGUCU ACGAGGGU	19178
3510	CUCUGCA G UCACAAGU	3871	ACTUGUGA GCCGAAAGGCGAGUGAGGUCU UGCACGAG	19179
3517	AGUGCAA G UGAUUGCU	3872	AGCAUUCU GCCGAAAGGCGAGUGAGGUCU UUGGAGU	19180
3523	AAGUAAU G CUUAUAAU	3873	AUUUAUAG GCCGAAAGGCGAGUGAGGUCU AUUCACUU	19181
3532	CUUAUAAU G CUGAUUUG	3874	CAUAUACG GCCGAAAGGCGAGUGAGGUCU AUUAUAAU	19182
3555	CCUUUUA G UUGGGCCU	3875	AGGCCCAA GCCGAAAGGCGAGUGAGGUCU UGAAUAAU	19183
3560	UCAGUUGG G CCUUCUGG	3876	CCAGAAAG GCCGAAAGGCGAGUGAGGUCU CCAACUGA	19184
3568	GCCUUCUG G UCGUGUUC	3877	GAACACGA GCCGAAAGGCGAGUGAGGUCU CAGAAAGG	19185
3571	UUCUGGUC G UGUUCUUG	3878	CAAGAACA GCCGAAAGGCGAGUGAGGUCU GACCAAGG	19186
3573	CUGUGCGU G UUCUUGGC	3879	GCCAAGAA GCCGAAAGGCGAGUGAGGUCU ACGACCAG	19187
3580	UGUUCUUG G CCACCCAG	3880	CUGGUGGG GCCGAAAGGCGAGUGAGGUCU CAAAGACA	19188
3592	CCCAGGAG G UCCUUCGC	3881	GCGAAGGA GCCGAAAGGCGAGUGAGGUCU CUCCUGGG	19189
3599	GGUCCUUC G CAAGAGGU	3882	ACCUCUUG GCCGAAAGGCGAGUGAGGUCU GAAGGACC	19190
3606	CGCAAGAG G UGGACAGC	3883	GCUGUCCA GCCGAAAGGCGAGUGAGGUCU CUCUUGCG	19191
3613	GGUGGACA G CCAAGAUU	3884	GAUCUUGG GCCGAAAGGCGAGUGAGGUCU UGUCCACC	19192
3623	CAAGAUA G CAUGCCAG	3885	CUGGCAUG GCCGAAAGGCGAGUGAGGUCU UGAUCUUG	19193
3627	AUCAGCAU G CCAGCUAU	3886	AUAGCUGG GCCGAAAGGCGAGUGAGGUCU AUGCUAGU	19194
3631	GCAUGCCA G CUUAUACU	3887	CAGUAUAG GCCGAAAGGCGAGUGAGGUCU UGGCAUGC	19195
3643	UACUGAUU G CUCUGCUA	3888	UAGCAGAG GCCGAAAGGCGAGUGAGGUCU AUUCAGUA	19196
3648	AUUGCUCU G CUAGUCCU	3889	AGGACUAG GCCGAAAGGCGAGUGAGGUCU AGGCAAGU	19197
3652	CUCUGCUA G UCCUGGUG	3890	CACCAAGG GCCGAAAGGCGAGUGAGGUCU UAGCAGAG	19198
3658	UAGUCCUG G UGUUUGGG	3891	CCCAAAAC GCCGAAAGGCGAGUGAGGUCU CAGGACUA	19199
3660	GUCCUGGU G UUGGGGGG	3892	CCCCCAA GCCGAAAGGCGAGUGAGGUCU ACCAGGAC	19200
3668	GUUUGGGG G CAUUAUUC	3893	AAGUAAU GCCGAAAGGCGAGUGAGGUCU CCCCAAC	19201
3685	ACHUGAU G UGUUACGC	3894	CGCUAACA GCCGAAAGGCGAGUGAGGUCU AUACAGU	19202
3687	ACUGAUU G UUAUGCUA	3895	UAGGUUA GCCGAAAGGCGAGUGAGGUCU ACAUCAGU	19203
3692	UGUGUUA G CUAGUJUA	3896	UGACAUAG GCCGAAAGGCGAGUGAGGUCU GUACACA	19204
3697	UAGCUAU G UCAUCUUG	3897	CAAGAUA GCCGAAAGGCGAGUGAGGUCU AUAGGUA	19205

Table V

3706	UCAUCUUG G UGGGGGCA	3898	UGCCCCCA GCCGAAGGCGAGUGAGGUCU CAAGAUGA	19206
3712	UGGUGGG G CAGCUUUC	3899	GAAGCUG GCCGAAGGCGAGUGAGGUCU CCCCACCA	19207
3715	UGGGGGCA G CUUUCGCA	3900	UGCGAAG GCCGAAGGCGAGUGAGGUCU UGCCCCCA	19208
3721	CAGCUUUC G CAGAAUCU	3901	AGAUUCG GCCGAAGGCGAGUGAGGUCU GAAAGCUG	19209
3745	GAGGAGC G UGUUACAC	3902	GUGUACCA GCCGAAGGCGAGUGAGGUCU GUCUCCUC	19210
3748	GAGACGUC G UACACUUG	3903	CAAGUGUA GCCGAAGGCGAGUGAGGUCU CACGUCUC	19211
3757	UACACUUG G CGCUCAUG	3904	CAUGAGCG GCCGAAGGCGAGUGAGGUCU CAAAGUGA	19212
3759	CACUUGG G CUCAUGGC	3905	GCCAUAG GCCGAAGGCGAGUGAGGUCU GCCAAGUG	19213
3766	CGCUCAUG G CGACCUUC	3906	GAAGGUCG GCCGAAGGCGAGUGAGGUCU CAUGAGCG	19214
3787	UACAACCA G UGUUUAUG	3907	CAUAAACA GCCGAAGGCGAGUGAGGUCU UGGUUGUA	19215
3789	CAACCAGU G UUUUAUGU	3908	ACCAUAAA GCCGAAGGCGAGUGAGGUCU ACUGGUUG	19216
3796	UGUUUAUG G UGGCAUCG	3909	CGAUGCCA GCCGAAGGCGAGUGAGGUCU CAUAAACA	19217
3799	UUUAUGG G CAUCGUUU	3910	AAACGAUG GCCGAAGGCGAGUGAGGUCU CACCAUAA	19218
3804	GUGGCAUC G UUUCUCA	3911	UUAGAGAA GCCGAAGGCGAGUGAGGUCU GAUGCCAC	19219
3814	UUUCUCAA G CGAGAUGG	3912	CCAUCUCG GCCGAAGGCGAGUGAGGUCU UUUAGAGAA	19220
3843	AACAUUUU G UUGAUGUU	3913	AACAUCAA GCCGAAGGCGAGUGAGGUCU AAAUUGU	19221
3849	UUGUUGAU G UGGCGGCG	3914	GCCGCCAA GCCGAAGGCGAGUGAGGUCU AUCAACAA	19222
3853	UGAUGUUG G CGGCUGUU	3915	AACAGCGG GCCGAAGGCGAGUGAGGUCU CAAACA	19223
3856	UGUUGGCG G CUGUUUUC	3916	GAAACACG GCCGAAGGCGAGUGAGGUCU GCGCAACA	19224
3859	UGGCGGCU G UUUCUUU	3917	AAAGAAA GCCGAAGGCGAGUGAGGUCU AGCCGCCA	19225
3874	UUCAAUUG G CUUAUCAC	3918	GUGAUUAG GCCGAAGGCGAGUGAGGUCU CAUUUGAA	19226
3886	AUCACGAG G CCCGCCAA	3919	UUGGCGGG GCCGAAGGCGAGUGAGGUCU AUCUGAU	19227
3890	CGAUGCCG G CCAAUUUC	3920	GAUUUUG GCCGAAGGCGAGUGAGGUCU GGGCAUCG	19228
3900	CAAAUUCU G CUCUGGGA	3921	UCCACAG GCCGAAGGCGAGUGAGGUCU AGAUUUUG	19229
3919	UCCUGAGU G UGUUAAU	3922	AUUCACAA GCCGAAGGCGAGUGAGGUCU AUCAGGGA	19230
3921	CCUGAUGU G UUGAAUUC	3923	GAUUCAA GCCGAAGGCGAGUGAGGUCU CAGUGAAU	19231
3934	AUUCACUG G CGGUAGCU	3924	AGCUACCG GCCGAAGGCGAGUGAGGUCU CCGCAGUG	19232
3937	CACUGGCG G UAGCUUUG	3925	CCAAGCUA GCCGAAGGCGAGUGAGGUCU UACCGCCA	19233
3940	UGGCGGUA G CUUGGAUG	3926	CAUCCAAG GCCGAAGGCGAGUGAGGUCU UCUCAGUA	19234
3958	UACUGAGA G CCAUAAACA	3927	UGUUUUG GCCGAAGGCGAGUGAGGUCU GUUUGAUG	19235
3985	CAUCAAC G UGUUUUGU	3928	AACAACCA GCCGAAGGCGAGUGAGGUCU CACGUUUG	19236
3988	CAACGUG G UUGUUCCG	3929	CGGAACAA GCCGAAGGCGAGUGAGGUCU AACCCAGU	19237
3991	ACGUGGUU G UUCGCGUG	3930	CAGCGGA GCCGAAGGCGAGUGAGGUCU GBAACAAC	19238
3996	GUUGUUCC G CUGUAGC	3931	GUUAGCAG GCCGAAGGCGAGUGAGGUCU AGGCUUAG	19239
3999	GUUCGCGU G CUAGCCCU	3932	AGGCUUAG GCCGAAGGCGAGUGAGGUCU AGCGAAC	19240
4003	CGUGUCUA G CCUGUCUA	3933	UAGCAGGG GCCGAAGGCGAGUGAGGUCU UAGCAGCG	19241
4008	ACAGCCCU G CUACACCC	3934	GGUUGUAG GCCGAAGGCGAGUGAGGUCU AGGCGUAG	19242
4020	ACACCGG G CUAGAGUG	3935	CAUCUCAG GCCGAAGGCGAGUGAGGUCU CCGGGUGU	19243
4028	GCUGAGAU G CUUGAAUC	3936	GAUUCAG GCCGAAGGCGAGUGAGGUCU AUCUCAGC	19244
4042	AUCUGGAU G UGUACAGG	3937	CCUGUACA GCCGAAGGCGAGUGAGGUCU AUCCAGAU	19245

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4044	CUGGAUGU G UACAGGAU	3938	AUCCUGUA GCCGAAAGGCGAGUGAGGUU ACAUCCAG	19246
4056	AGGAUACU G CUGUUGAU	3939	AUCAACAG GCCGAAAGGCGAGUGAGGUU AGUAUCCU	19247
4059	AUACUGCU G UUGAUGGU	3940	ACCAUCA A GCCGAAAGGCGAGUGAGGUU AGCAGUAU	19248
4066	UGUUGAUG G UCGAAUA	3941	UAUCCCGA GCCGAAAGGCGAGUGAGGUU CAUCAACA	19249
4076	CGGAUAG G CAGCUUGA	3942	UCAAGCUG GCCGAAAGGCGAGUGAGGUU CUUAUCCG	19250
4079	AAUAGGCA G CUGUAUCA	3943	UGAUCAAG GCCGAAAGGCGAGUGAGGUU UGCCUAUU	19251
4100	GAAGAGGA G UGARGCUG	3944	CAGCUGCA GCCGAAAGGCGAGUGAGGUU UCCUCUUC	19252
4102	AGAGGAGU G CAGCUGCA	3945	UGCAGCUG GCCGAAAGGCGAGUGAGGUU ACUCCUUC	19253
4105	GGAGUGCA G CUGCAAAA	3946	UUUUGCAG GCCGAAAGGCGAGUGAGGUU UGCACUCC	19254
4108	GUACAGCU G CAAGAAAG	3947	CUUUUUUG GCCGAAAGGCGAGUGAGGUU AGCUGCAC	19255
4123	AGAAAGGA G CAAGUCUG	3948	CAGACUUG GCCGAAAGGCGAGUGAGGUU UCCUUUCU	19256
4127	AGGAGCAA G CUUUGCUU	3949	AUAGCAGA GCCGAAAGGCGAGUGAGGUU UUGUCUUC	19257
4131	GCAAGUCU G CUUUGCUU	3950	AAGCAUAG GCCGAAAGGCGAGUGAGGUU AGACUUGC	19258
4136	UCUGCUAU G CUUGGCTUC	3951	GAGCCRAA GCCGAAAGGCGAGUGAGGUU AUAGCAGA	19259
4141	UAUGCUUG G CUCUAGCC	3952	GGCUAGAG GCCGAAAGGCGAGUGAGGUU CAAGCAUA	19260
4147	UGGCUUA G CCUCACAA	3953	UUUUGAGG GCCGAAAGGCGAGUGAGGUU UAGAGCCA	19261
4180	UGAUCCUU G CUGCUGGA	3954	UCCAGCAG GCCGAAAGGCGAGUGAGGUU AAGBAUCA	19262
4183	UCCUUGCU G CUGGACUG	3955	CAGUCCAG GCCGAAAGGCGAGUGAGGUU AGCAAGGA	19263
4195	GACUGAUU G CAUGUGAU	3956	AUCACAU G GCCGAAAGGCGAGUGAGGUU AUUCAGUC	19264
4199	GAUTUGAU G UGAUCCCA	3957	UGGGAUCA GCCGAAAGGCGAGUGAGGUU AUGCRAUC	19265
4211	UCCCAACC G UAAACGCG	3958	CGCGUUA GCCGAAAGGCGAGUGAGGUU GGUUGGGA	19266
4217	CGUAAC G CGGAUGG	3959	GCCAUCCG GCCGAAAGGCGAGUGAGGUU GUUUAAGG	19267
4224	CGCGGAG G CCCGCAAC	3960	GUUGCGGG GCCGAAAGGCGAGUGAGGUU CAUCGCG	19268
4228	GAUGGCC G CAACUGAA	3961	UUCAGUUG GCCGAAAGGCGAGUGAGGUU GGGCCAUC	19269
4237	CAACUGAA G UGAUGACA	3962	UGUCAUCA GCCGAAAGGCGAGUGAGGUU UUCAGUUG	19270
4246	UGAUGACA G CUGUGGCC	3963	CCGACAG GCCGAAAGGCGAGUGAGGUU UGUCAUCA	19271
4249	UGACAGCU G UCGGCCUA	3964	UAGGCGGA GCCGAAAGGCGAGUGAGGUU AGCUGUCA	19272
4253	AGCUGUC G CCUAUUGU	3965	ACAUUAGG GCCGAAAGGCGAGUGAGGUU CGACAGCU	19273
4260	GGCCUAU G UUUGCCAU	3966	AUGGCAAA GCCGAAAGGCGAGUGAGGUU AUUAGGCC	19274
4264	UUAUGUUU G CCAUCGUC	3967	GACGAUG GCCGAAAGGCGAGUGAGGUU AAACAUA	19275
4270	UUGCCAUC G UCGAGGG	3968	CCUCCCGA GCCGAAAGGCGAGUGAGGUU GAUGGCAA	19276
4278	GUCGAGG G CUGGCAGA	3969	UCUGCCAG GCCGAAAGGCGAGUGAGGUU CCUCGAC	19277
4282	GAGGCGU G CAGAGCUU	3970	AGCUCUG GCCGAAAGGCGAGUGAGGUU CAGCCUCC	19278
4287	CUGGAGA G CUUGACAU	3971	AUGUCAAG GCCGAAAGGCGAGUGAGGUU UCUGCCAG	19279
4306	ACUCCAUG G CCAUUCUA	3972	UGGAAUGG GCCGAAAGGCGAGUGAGGUU CAUGBAGU	19280
4324	UGACUAUC G CGGGGCU	3973	GAGCCCCG GCCGAAAGGCGAGUGAGGUU GAUAGUCA	19281
4329	UAGCUGG G CUCAUGUU	3974	AACAUGAG GCCGAAAGGCGAGUGAGGUU CCCGCGAU	19282
4335	GGGCUCAU G UUUGCUGC	3975	GCAGCAAA GCCGAAAGGCGAGUGAGGUU AUGAGCCC	19283
4339	UCAUGUUU G CUGCUUUC	3976	GAAGCAG GCCGAAAGGCGAGUGAGGUU AAACAUGA	19284
4342	UGUUUGCU G CUUUCGUG	3977	CAGCAAG GCCGAAAGGCGAGUGAGGUU AGCAAAACA	19285

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4348	CUGCUUUC G UGAUUUCU	3978	AGAAUACA GCCGAAGGCGAGUGAGGUCU GAAAGCAG	19286
4374	ACAGAUU G UGGAUUGA	3979	UCAAUCCA GCCGAAGGCGAGUGAGGUCU AUAUCUGU	19287
4390	AGAGAAC G CGACAUU	3980	AAUGUCCG GCCGAAGGCGAGUGAGGUCU CGUUCUCU	19288
4409	CUGGAAA G UGAUGCAG	3981	CUGCAUCA GCCGAAGGCGAGUGAGGUCU UUUCCACG	19289
4414	AAAGUGAU G CAGAAAUU	3982	AAUUCUG GCCGAAGGCGAGUGAGGUCU AUCACUUU	19290
4427	AAUACAG G CUCGAGCG	3983	CGCUCGAG GCCGAAGGCGAGUGAGGUCU UCGAGCCU	19291
4433	AGGCUCA G CGAAAGAG	3984	CUCUUUCG GCCGAAGGCGAGUGAGGUCU UCUUUCGC	19292
4441	GCGAAGA G UGUAUGUG	3985	CACAUCAA GCCGAAGGCGAGUGAGGUCU AUCACUC	19293
4447	GAGUGAU G UGCUGCUC	3986	AAGCCGCA GCCGAAGGCGAGUGAGGUCU AUAUCAC	19294
4449	GUUGAUG G CGGCUUGA	3987	UCAAGCCG GCCGAAGGCGAGUGAGGUCU AUAUCAC	19295
4452	GAUGUCG G CUUGAUGA	3988	UCAUCAAG GCCGAAGGCGAGUGAGGUCU UGGAAGUU	19296
4476	AACUCCA G CUCAUGAA	3989	UUAUGAG GCCGAAGGCGAGUGAGGUCU UCCUGGAU	19297
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGUG GCCGAAGGCGAGUGAGGUCU AUCCAUU	19298
4515	AUAUGAU G CUCAGAAU	3991	AUUCUGAG GCCGAAGGCGAGUGAGGUCU CAUUCUGA	19299
4525	UCAGAAUG G UCUUGUCU	3992	GAGACAGA GCCGAAGGCGAGUGAGGUCU AGACCAU	19300
4529	AAUGGUCU G UCUGCGA	3993	UCGCGAGA GCCGAAGGCGAGUGAGGUCU AGACCAU	19301
4534	UCUGUCU G CGAUUAGU	3994	ACUAAUCG GCCGAAGGCGAGUGAGGUCU GAGACAGA	19302
4541	CGCAUUA G UGCUUACA	3995	UGUAACGA GCCGAAGGCGAGUGAGGUCU UAAUCGCG	19303
4543	CGAUUAG G CGUACACC	3996	GGUUAUG GCCGAAGGCGAGUGAGGUCU ACUAAUCG	19304
4545	AUAUGUC G UACACCCC	3997	GGGUGUA GCCGAAGGCGAGUGAGGUCU GCACUAAU	19305
4558	CCCCCUG G CAAUCUUG	3998	CAAGAUUG GCCGAAGGCGAGUGAGGUCU CCAGGGGG	19306
4566	GCAUUCU G CCCUCAGU	3999	ACUGAGGG GCCGAAGGCGAGUGAGGUCU AAGAUUGC	19307
4573	UGCCCUCA G UAGUUGGA	4000	UCCAACUA GCCGAAGGCGAGUGAGGUCU UGAGGGCA	19308
4576	CCUCAGUA G UUGGAUUU	4001	AAAUCCA GCCGAAGGCGAGUGAGGUCU UACUGAGG	19309
4616	GAGAGGAG G CGUGUUGU	4002	ACAACACG GCCGAAGGCGAGUGAGGUCU CUCUCUCU	19310
4618	GAGGAGGC G UGUUGUGG	4003	CCACAACA GCCGAAGGCGAGUGAGGUCU GOCUCCUC	19311
4620	GGAGGCGU G UUGUGGGA	4004	UCCACACA GCCGAAGGCGAGUGAGGUCU ACGCCUCC	19312
4623	GGCGUGUU G UGGGACAC	4005	GUGUCCCA GCCGAAGGCGAGUGAGGUCU AACACGCC	19313
4647	CCAAAGGA G UACAAAAA	4006	UUUUUGUA GCCGAAGGCGAGUGAGGUCU UCCUUUGG	19314
4673	GACCACCG G CGUCUACA	4007	UGUAGAGG GCCGAAGGCGAGUGAGGUCU CGGUGGUC	19315
4675	CCACCGGC G UCUACAGG	4008	CCUGUAGA GCCGAAGGCGAGUGAGGUCU GCCGGUGG	19316
4694	CAUGACUC G UGGGCUUG	4009	GCAGCCCA GCCGAAGGCGAGUGAGGUCU GAGUCAUG	19317
4698	ACUCGUGG G CUGUCUGG	4010	CCGAGCAG GCCGAAGGCGAGUGAGGUCU CCACGAGU	19318
4701	CGUGGCGU G CUCGGCAG	4011	CUGCCGAG GCCGAAGGCGAGUGAGGUCU AGCCACAG	19319
4706	GCUGCUCG G CAGUUAUC	4012	GAUAAUCG GCCGAAGGCGAGUGAGGUCU CGAGCAGC	19320
4709	GCUCGCA G UUAUCAAG	4013	CUUGAUA GCCGAAGGCGAGUGAGGUCU UGCCGAGC	19321
4717	GUUAUCAA G CAGGAGCG	4014	CGUCUCUG GCCGAAGGCGAGUGAGGUCU UUGAUAA	19322
4723	AAGCAGGA G CGGGCGUG	4015	CACGCCG GCCGAAGGCGAGUGAGGUCU UCCUGCUU	19323
4727	AGGAGCGG G CGUGAUGG	4016	CCAUCACG GCCGAAGGCGAGUGAGGUCU CCGCUCU	19324
4729	GAGCGGCG G UGAUGGUU	4017	AACCAUCA GCCGAAGGCGAGUGAGGUCU GCCCGCUC	19325

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4735	GCUGAUG G UGAAGGU	4018	ACUUCNA GCCGAAAGCGAGUGAGGUU CAUCACGC	19326
4742	GGUUGAG G UGUUUCC	4019	GGAAAAA GCCGAAAGCGAGUGAGGUU CUUCAACC	19327
4744	UGAAGGU G UUUCCAC	4020	GUGGAAA GCCGAAAGCGAGUGAGGUU ACCUCAA	19328
4761	ACCUUG G CAUACAC	4021	GUUGAUG GCCGAAAGCGAGUGAGGUU CAAAGGU	19329
4777	CAAAGG G CGCUUUG	4022	CAAAGCG GCCGAAAGCGAGUGAGGUU UCCUUUG	19330
4780	AAGGAGC G CUUGAUG	4023	CAUCAAG GCCGAAAGCGAGUGAGGUU GGUCCUU	19331
4790	UUUGAUG G CGGAGAG	4024	CCUUCUG GCCGAAAGCGAGUGAGGUU UCAUCAA	19332
4799	CGGAGAG G CCGCUUG	4025	CCAGCGG GCCGAAAGCGAGUGAGGUU CCUCUCCG	19333
4802	AGAGGCC G CCUGACC	4026	GGUCCAG GCCGAAAGCGAGUGAGGUU GGCUCUCU	19334
4820	AUACUGG G CAGUGUA	4027	UGACACU GCCGAAAGCGAGUGAGGUU UGCOCACG	19335
4823	CUGGGCA G UGUCAAG	4028	CCUUGAC GCCGAAAGCGAGUGAGGUU UGCOCACG	19336
4825	GGGGCAG G UCAAGAG	4029	CUCUUGA GCCGAAAGCGAGUGAGGUU ACUGCCCC	19337
4844	UCGACUU G UACGGAG	4030	CUCGUAU GCCGAAAGCGAGUGAGGUU AAAGUCGA	19338
4866	UGGAAUU G CAGCACA	4031	UUUGCUG GCCGAAAGCGAGUGAGGUU AAUUCUA	19339
4869	AAUUGCA G CACAAGU	4032	CACUUGU GCCGAAAGCGAGUGAGGUU UGCAAUUU	19340
4875	CAGCACA G UGNAACG	4033	CCGUUCCA GCCGAAAGCGAGUGAGGUU CCGUUCUA	19341
4884	UGNAACG G CAGGAUG	4034	UCAUCCU GCCGAAAGCGAGUGAGGUU CUCAUCCU	19342
4894	AGGAUAG G UGCAGAU	4035	CAUCUGA GCCGAAAGCGAGUGAGGUU ACCUCAUC	19343
4896	GAUGAGU G UGUUGGA	4036	AUCAUCU GCCGAAAGCGAGUGAGGUU AAUCAUCU	19344
4906	AGAUAUU G UGUUACU	4037	UUCACCA GCCGAAAGCGAGUGAGGUU CACAAUCA	19345
4909	UGAUUGU G UGNAACU	4038	AGGUCCA GCCGAAAGCGAGUGAGGUU CAGGUUCC	19346
4919	GGACCUU G CAGAACG	4039	CGUUCUU GCCGAAAGCGAGUGAGGUU GUUCUUGC	19347
4927	GCAAGAC G UUAAGAC	4040	GUUCUUA GCCGAAAGCGAGUGAGGUU GUUCUUGC	19348
4936	UUAAGAC G UCCAGAG	4041	CGUUGGA GCCGAAAGCGAGUGAGGUU GUUCUUA	19349
4954	AACGAGG G UGUUCAA	4042	UUUGAUA GCCGAAAGCGAGUGAGGUU CCCUGGU	19350
4956	CCAGGGU G UUCACAC	4043	GUUUGAA GCCGAAAGCGAGUGAGGUU ACCCUGG	19351
4984	AAUUCGG G CCGUGAC	4044	AGUCACG GCCGAAAGCGAGUGAGGUU CCCGAUU	19352
4987	UCGGGGC G UGACUUU	4045	CAAAGUA GCCGAAAGCGAGUGAGGUU GGCCTCGA	19353
5018	AACAUCG G CUCACCA	4046	UUGGUGA GCCGAAAGCGAGUGAGGUU UUAUGGUG	19354
5029	CACCAUA G UGACAAA	4047	UUUGUCA GCCGAAAGCGAGUGAGGUU CGUUUUUG	19355
5042	CAAAACG G UGAUGUA	4048	UCACAUA GCCGAAAGCGAGUGAGGUU CCAUUCAC	19356
5047	ACGGUAG G UGAUUGG	4049	CCCAUAU GCCGAAAGCGAGUGAGGUU AUCACCGU	19357
5055	GUGAUUG G CUUUAUG	4050	CCCAUAU GCCGAAAGCGAGUGAGGUU CCAUUCAC	19358
5063	GUUUAUG G CAUUGAG	4051	CUCCAUG GCCGAAAGCGAGUGAGGUU CAUUAAGC	19359
5071	GCAUUGA G UCAUAUG	4052	CAUUAUG GCCGAAAGCGAGUGAGGUU UCCAUUGC	19360
5079	GUCAUUA G CCAACGG	4053	CCGUUGG GCCGAAAGCGAGUGAGGUU AUUAUGAC	19361
5087	GCCCAAC G CUCAUUA	4054	UGUAUGA GCCGAAAGCGAGUGAGGUU CGUUGGGC	19362
5099	AUACAUA G CGCAUUA	4055	CUAUCUG GCCGAAAGCGAGUGAGGUU UUAUGUAU	19363
5101	ACAUAAG G CGAUAUG	4056	CACUAUC GCCGAAAGCGAGUGAGGUU GCUAUGU	19364
5107	GCGCAUA G UGCAGGU	4057	ACCUUGA GCCGAAAGCGAGUGAGGUU UAUCGCGC	19365

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5109	GGCAUAGU G CAGGGUGA	4058	UCACCCUG GCCGAAAGCGAGUGAGGUCU ACUAUOGC	19366
5114	AGUGCAGG G UGAAAGGA	4059	UCCUUUCA GCCGAAAGCGAGUGAGGUCU CCUGCACU	19367
5130	AUGGAUGA G CCAUUGCC	4060	GGGAUUGG GCCGAAAGCGAGUGAGGUCU UCAUCCAU	19368
5140	CAUCCCA G CCGGAUUC	4061	GAUCCGG GCCGAAAGCGAGUGAGGUCU UGGGAUUG	19369
5160	CCUGAGAU G CUGAGGAA	4062	UUCUCUAG GCCGAAAGCGAGUGAGGUCU AUCUCAGG	19370
5182	AGAUACU G UACUGGAU	4063	AUCCAGUA GCCGAAAGCGAGUGAGGUCU AGUGAUUC	19371
5201	CCAUCCG G CGCCGGUA	4064	UACCGCG GCCGAAAGCGAGUGAGGUCU CGGGAUGG	19372
5203	AUCCCGGC G CGGUAUA	4065	UUUACCGG GCCGAAAGCGAGUGAGGUCU GCCGGGAU	19373
5207	CGCGCGCG G UAAACAA	4066	UUGUUUA GCCGAAAGCGAGUGAGGUCU CGGCGCCG	19374
5226	AGGAUUCU G CCACAGAU	4067	AUCUGUGG GCCGAAAGCGAGUGAGGUCU AGAAUCCU	19375
5245	UCAAAGAG G CCAUAAAC	4068	GUUUUUGG GCCGAAAGCGAGUGAGGUCU UGUUUCUA	19376
5269	UGAGAACA G CCGUGCUA	4069	UAGCACGG GCCGAAAGCGAGUGAGGUCU UGUUUCUA	19377
5272	GAACAGCC G UGCUAGCA	4070	UGCUAGCA GCCGAAAGCGAGUGAGGUCU ACGGCTUG	19378
5274	ACAGCGU G CACCAACC	4071	GGUGCUAG GCCGAAAGCGAGUGAGGUCU UAGCACGG	19379
5278	CCGUGCUA G UUGUGGCU	4072	GGUUGGUG GCCGAAAGCGAGUGAGGUCU UAGCACGG	19380
5290	CAACAGG G UGGCUGCU	4073	AGCCACAA GCCGAAAGCGAGUGAGGUCU AACCUGG	19381
5293	CCAGGGUU G UGGCUGCU	4074	AGCAGCCA GCCGAAAGCGAGUGAGGUCU CACCAACC	19382
5296	GGGUGUG G CUGCUGAG	4075	CUCAGCAG GCCGAAAGCGAGUGAGGUCU AGCCACAA	19383
5299	UUGUGGCU G CUGAGAUG	4076	CAUUCUAG GCCGAAAGCGAGUGAGGUCU CAUCUCAG	19384
5308	CUGAGAU G CUGAAGCA	4077	UGCUUCAG GCCGAAAGCGAGUGAGGUCU UUCAGCCA	19385
5314	UGGUGAA G CACUGAGA	4078	UCUCAGUG GCCGAAAGCGAGUGAGGUCU AGUCCUCU	19386
5328	AGAGGACU G CCAUCCG	4079	CGGAUUGG GCCGAAAGCGAGUGAGGUCU CGGAUUGG	19387
5337	CCCAUCCG G UACCAAGC	4080	GUUCUGUA GCCGAAAGCGAGUGAGGUCU GGAUUGCU	19388
5350	AGACAUC G CAGUGCCC	4081	GGGCACUG GCCGAAAGCGAGUGAGGUCU GGAUUGCU	19389
5353	CAUCCGCA G UGCCGAGA	4082	UCUGGGCA GCCGAAAGCGAGUGAGGUCU ACUGCGGA	19390
5355	UCCGCAGU G CCAAGAGA	4083	UCUCUGG GCCGAAAGCGAGUGAGGUCU ACUGCGGA	19391
5383	AUGAGAU G UGAUGUC	4084	GACAUCAA GCCGAAAGCGAGUGAGGUCU AUCACCAA	19392
5389	UUGUGAU G UCAUGUGU	4085	ACACAUGA GCCGAAAGCGAGUGAGGUCU AUGACAUC	19393
5394	GAUGUCAU G UGUCAUUC	4086	GAUGACA GCCGAAAGCGAGUGAGGUCU AUGACAUC	19394
5396	UGUCAUGU G UCAUGCUA	4087	UAGCAUGA GCCGAAAGCGAGUGAGGUCU AUGACAUC	19395
5401	UGUGUCAU G CUACCCUC	4088	GAGGGUAG GCCGAAAGCGAGUGAGGUCU AUGACACA	19396
5418	ACCCACAG G CUGAUGUC	4089	GACAUCAG GCCGAAAGCGAGUGAGGUCU AUGACACA	19397
5424	AGGCUGAU G UCUCUCA	4090	UGAGGAGA GCCGAAAGCGAGUGAGGUCU AUGACACA	19398
5437	CACAGAG G UCCCGAAC	4091	GUUCGGCA GCCGAAAGCGAGUGAGGUCU AUGACACA	19399
5439	CACAGAG G UCCCGAAC	4092	UAGUUCGG GCCGAAAGCGAGUGAGGUCU AUGACACA	19400
5454	UACNACCU G UUCGUGAU	4093	AUCCAGAA GCCGAAAGCGAGUGAGGUCU AUGACACA	19401
5458	ACCUUGUC G UGAUGGAU	4094	AUCCAUCA GCCGAAAGCGAGUGAGGUCU AUGACACA	19402
5470	UGGAUGAG G CUCAUUC	4095	GAUAUGAG GCCGAAAGCGAGUGAGGUCU AUGACACA	19403
5488	CCGACCCA G CUAGCAU	4096	AAUGCUAG GCCGAAAGCGAGUGAGGUCU UGGGUCGG	19404
5492	CCCAGCUA G CAUUGCAG	4097	CUGCAUUG GCCGAAAGCGAGUGAGGUCU UAGCUGGG	19405

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5497	CUAGCAUU G CAGCAAGA	4098	UCUUGUG GCGAAAGCGAGUGAGGUCU AAUGCUAG	19406
5500	GCAUUGCA G CAAGAGGU	4099	ACCUCUUG GCCGAAAGCGAGUGAGGUCU UGCAUUGC	19407
5507	AGCAAGAG G UUAUAUU	4100	AAAGUUA GCCGAAAGCGAGUGAGGUCU CUCUUGCU	19408
5524	CCACAAG G UCGAGCUA	4101	UAGCUGA GCCGAAAGCGAGUGAGGUCU CUUUGUGG	19409
5529	AAGUUGA G CUAGGGGA	4102	UCCCCUAG GCCGAAAGCGAGUGAGGUCU UCGACCUU	19410
5539	UAGGGGAG G CGGCGCA	4103	UGCCGCGG GCCGAAAGCGAGUGAGGUCU CUCCCCUA	19411
5542	GGGAGGCG G CGGCAUA	4104	UAUUGCGG GCCGAAAGCGAGUGAGGUCU CGCCUCCC	19412
5545	AGGCGGCG G CAUAUUC	4105	GAUAUUG GCCGAAAGCGAGUGAGGUCU CGCCGCGU	19413
5560	UCAUGACA G CCACCCA	4106	UGGGUGG GCCGAAAGCGAGUGAGGUCU UGUCAUGA	19414
5573	CCCACCAG G CACUUCAG	4107	CUGAAGUG GCCGAAAGCGAGUGAGGUCU CUGGUGGG	19415
5595	UUCCACGA G UCCAAUUC	4108	GAUUGGA GCCGAAAGCGAGUGAGGUCU UCUUGGAA	19416
5641	GGGAUGCA G CUUGGAC	4109	GUUCCAAG GCCGAAAGCGAGUGAGGUCU UCGAUCCG	19417
5689	GGAGACG G UUUUGUU	4110	AAACCAAA GCCGAAAGCGAGUGAGGUCU CGUCUCCC	19418
5694	ACGGUUUG G UUUUGGCC	4111	GGCACAAA GCCGAAAGCGAGUGAGGUCU CAACCCGU	19419
5698	UUUGUUUG G UGCCUAGU	4112	ACUAGGCA GCCGAAAGCGAGUGAGGUCU AAACCAAA	19420
5700	UGGUUUUG G CCUAGUGU	4113	ACAUAGG GCCGAAAGCGAGUGAGGUCU ACRAACCA	19421
5705	UGUGCCUA G UGUCAAGA	4114	UCUUGACA GCCGAAAGCGAGUGAGGUCU UAGGCACA	19422
5707	UGCUUAGU G UCAAGAUG	4115	CAUCUUGA GCCGAAAGCGAGUGAGGUCU ACUAGGCA	19423
5728	AUGAGAUU G CCCUUUGC	4116	GCAAAGG GCCGAAAGCGAGUGAGGUCU AAUCUCAU	19424
5735	UGCCUUU G CUAACAAC	4117	GUUUGAG GCCGAAAGCGAGUGAGGUCU AAAGGGCA	19425
5744	CUACAAC G UGCUVGA	4118	UUCACGCA GCCGAAAGCGAGUGAGGUCU GUUGUAGG	19426
5746	UACAACG G UGUGAAG	4119	CUUUCAG GCCGAAAGCGAGUGAGGUCU ACUUGUA	19427
5758	GAAGAAA G UAGUCCAA	4120	UUGAGUA GCCGAAAGCGAGUGAGGUCU UUUUUUUC	19428
5761	AGAAAGUA G UCCAAUUG	4121	CAAUUGGA GCCGAAAGCGAGUGAGGUCU UACUUUUC	19429
5778	AACAGAAA G UGUUACGA	4122	UCGUACGA GCCGAAAGCGAGUGAGGUCU UUUUGUU	19430
5781	AGAAAGUC G UACGAGAC	4123	GUUCUGUA GCCGAAAGCGAGUGAGGUCU GACUUUCU	19431
5793	GAGACGGA G UACCCAAA	4124	UUUUGGUA GCCGAAAGCGAGUGAGGUCU UCCGUCUC	19432
5804	CCCAAAU G UAAGAAG	4125	CGUUCUA GCCGAAAGCGAGUGAGGUCU AUUUUGG	19433
5827	GGACUUU G UUAUCACA	4126	UGUGAUA GCCGAAAGCGAGUGAGGUCU AAAGUCCC	19434
5857	AAUUGGG G CUAACUUC	4127	GAAGUAG GCCGAAAGCGAGUGAGGUCU CCCCNUU	19435
5859	ACUUCAG G CGAGCAGG	4128	CCUGUCG GCCGAAAGCGAGUGAGGUCU CUUGAAGU	19436
5873	CHAGGCGA G CAGGGUGA	4129	UCACCCUG GCCGAAAGCGAGUGAGGUCU UCGCCUUG	19437
5878	CGAGCAGG G UGAUUGAC	4130	GUCAUCA GCCGAAAGCGAGUGAGGUCU CGUGCUCG	19438
5888	GAUUGACA G CCGAAGA	4131	UUUCCCG GCCGAAAGCGAGUGAGGUCU UGUCAUUC	19439
5897	CGGAGAG G UGUGAAC	4132	GUUUCACA GCCGAAAGCGAGUGAGGUCU UCUUCCCG	19440
5899	GGAGAGU G UGARACCA	4133	UAGUUUCA GCCGAAAGCGAGUGAGGUCU ACUCUCCC	19441
5935	AAGGGAGA G UGAUCCUG	4134	CAGGAUCA GCCGAAAGCGAGUGAGGUCU UCUCCTUU	19442
5956	AACCAUUC G CAGUGACA	4135	UGUCACUG GCCGAAAGCGAGUGAGGUCU AGAUGGUU	19443
5959	CAUCUGCA G UGACAGCA	4136	UGCUGUCA GCCGAAAGCGAGUGAGGUCU UGCAGAUU	19444
5965	CAGUGACA G CAGCUAGU	4137	ACUAGCUG GCCGAAAGCGAGUGAGGUCU UGUCAUCU	19445

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5968	UGACAGCA G CUAGUGCC	4138	GGCACUAG GCCGAAAGGCGAGUGAGGUCU UGCUGUCA	19446
5972	AGCAGCUA G UGCGGCC	4139	GGCGGCA GCCGAAAGGCGAGUGAGGUCU UAGCUGCU	19447
5974	CAGCUAGU G CCGCCAG	4140	CUGGCGG GCCGAAAGGCGAGUGAGGUCU ACUAGCUG	19448
5977	CUAGUGCC G CCAGAGA	4141	UCUGGGG GCCGAAAGGCGAGUGAGGUCU GGCACUAG	19449
5987	CCAGAGAC G UGACGUA	4142	UACGUCCA GCCGAAAGGCGAGUGAGGUCU GUUCUGG	19450
5993	ACGUGGAC G UAUCGUA	4143	UACGCUA GCCGAAAGGCGAGUGAGGUCU GUCCACGU	19451
5999	ACGUAUCG G UAGAAUC	4144	GAUUCUA GCCGAAAGGCGAGUGAGGUCU CGAUACGU	19452
6009	AGAAUCC G UCGAAGU	4145	ACUUGCGA GCCGAAAGGCGAGUGAGGUCU GGAUUCU	19453
6012	AAUCCGUC G CAAGUUG	4146	CCAAUUG GCCGAAAGGCGAGUGAGGUCU GACGGAU	19454
6016	CGUGGCAA G UUGGUGU	4147	AUCACCA GCCGAAAGGCGAGUGAGGUCU UUGCGACG	19455
6020	GCAUUG G UACUGUA	4148	ACUCAUA GCCGAAAGGCGAGUGAGGUCU CAAUUGC	19456
6027	GGUGAUGA G UACUGUA	4149	UAAACUA GCCGAAAGGCGAGUGAGGUCU UCAUCAC	19457
6032	UGAGUACU G UUAUGGG	4150	CCCCAUA GCCGAAAGGCGAGUGAGGUCU CCCCQAU	19458
6042	UAUGGGG G CACACGAA	4151	UUGGUGU GCCGAAAGGCGAGUGAGGUCU GAAUUGC	19459
6070	CGAACUUC G CCAUUGG	4152	CCAAUGG GCCGAAAGGCGAGUGAGGUCU CUCAGUCC	19460
6085	GGACUGAG G CACGNAUC	4153	GAUUCUG GCCGAAAGGCGAGUGAGGUCU AUGAUUG	19461
6096	CGAAUACU G CUGGACAA	4154	UUGUCCAG GCCGAAAGGCGAGUGAGGUCU AUGAUUG	19462
6114	AUCAACAU G CCAACGG	4155	CCGUUUG GCCGAAAGGCGAGUGAGGUCU AUGUUGAU	19463
6130	GACUGAUC G CUCAAUUC	4156	GAUUGAG GCCGAAAGGCGAGUGAGGUCU GAUCAGUC	19464
6150	CAACGAGA G CGUGAGAA	4157	UUCUCACG GCCGAAAGGCGAGUGAGGUCU UCUGGUU	19465
6152	ACCAGAGC G UGAGAGG	4158	CCUUCUCA GCCGAAAGGCGAGUGAGGUCU CUCUCAC	19466
6160	GUGAGAGG G UAUUAUCC	4159	GGUAUAUA GCCGAAAGGCGAGUGAGGUCU CUCUCAC	19467
6186	GAUAACCG G CUCAGAGG	4160	CCUCUGAG GCCGAAAGGCGAGUGAGGUCU CCGUAUUC	19468
6222	CUGGACU G CAGAUUCG	4161	GUCCUCA GCCGAAAGGCGAGUGAGGUCU AGUCCAG	19469
6232	UGAGGACU G CAGAUUCG	4162	CAGAUUCG GCCGAAAGGCGAGUGAGGUCU AGUCCAG	19470
6240	GCAGAUUC G CCAGUUG	4163	CAAAUUG GCCGAAAGGCGAGUGAGGUCU AGUCCAG	19471
6244	AUCUGCCA G UUUGGUG	4164	CAGCCAA GCCGAAAGGCGAGUGAGGUCU UGGCAGAU	19472
6249	CCAGUUG G CUGGCUUA	4165	UAAGCCAG GCCGAAAGGCGAGUGAGGUCU CAACTUG	19473
6253	UUUGGUG G CUUACAAG	4166	CUUGUAAG GCCGAAAGGCGAGUGAGGUCU CAGCCAA	19474
6262	CUUACAAG G UUGCAGCG	4167	CGCUGCA GCCGAAAGGCGAGUGAGGUCU CUUGUAAG	19475
6265	ACAAGGU G CAGCGGCU	4168	AGCGGUG GCCGAAAGGCGAGUGAGGUCU AACCUUG	19476
6268	AGGUUGCA G CCGGUGGA	4169	UCCAGCCG GCCGAAAGGCGAGUGAGGUCU UGCAACCU	19477
6271	UUGCAGCG G CUGGAGUG	4170	CACUCCAG GCCGAAAGGCGAGUGAGGUCU UCCAGCCG	19478
6277	CGGUGGA G UGUCAUAC	4171	GUUUGACA GCCGAAAGGCGAGUGAGGUCU CCGUCCAA	19479
6279	GUUGGAGU G UCAUACCA	4172	UGUUAUGA GCCGAAAGGCGAGUGAGGUCU UCCAGCCG	19480
6297	GACGAGG G UGUGGCUU	4173	AAGCACA GCCGAAAGGCGAGUGAGGUCU CUCCGGUC	19481
6300	CGAGGUG G UGUUUGA	4174	UCAAGCA GCCGAAAGGCGAGUGAGGUCU CACUCCG	19482
6302	GAGGUGG G CUUUGAUG	4175	CAUCAAG GCCGAAAGGCGAGUGAGGUCU ACCACCU	19483
6311	CUUUGAUG G UCCUAGGA	4176	UCCUAGGA GCCGAAAGGCGAGUGAGGUCU CAUCAAG	19484
6349	ACAACGAA G UGGAAGUC	4177	GACUCCA GCCGAAAGGCGAGUGAGGUCU UUGGUUG	19485

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6355	AAGUGGAA G UCAUCACG	4178	CGUGAUGA GCCGAAAGGCGAGUGAGGUCU UUCACAUU	19486
6366	AUCACGAA G CUUGGUGA	4179	UCACCAAG GCCGAAAGGCGAGUGAGGUCU UUCGUGAU	19487
6371	GAAGCTUG G UGAAAGGA	4180	UCCUUUCA GCCGAAAGGCGAGUGAGGUCU CAAGCUUC	19488
6390	AUUCUGAG G CCGCGCUG	4181	CAGCGCGG GCCGAAAGGCGAGUGAGGUCU CUCAGAAU	19489
6393	CUGAGGCC G CGCUGGAU	4182	AUCCAGCG GCCGAAAGGCGAGUGAGGUCU GGCCUCAG	19490
6395	GAGGCCGC G CUGGAUUG	4183	CAUCCAG GCCGAAAGGCGAGUGAGGUCU GCGGCCUC	19491
6406	GAUUGAC G CCAGGGUG	4184	CACCUGG GCCGAAAGGCGAGUGAGGUCU GUCNAUCC	19492
6412	ACGCCAGG G UGUACUCG	4185	CGAGUACA GCCGAAAGGCGAGUGAGGUCU CCGGCCGU	19493
6414	GCCAGGGU G UACUCGGA	4186	UCCGAGUA GCCGAAAGGCGAGUGAGGUCU ACCCUGGC	19494
6430	AUCACCG G CACUAAAG	4187	CUUUGUG GCCGAAAGGCGAGUGAGGUCU CUGGUGAU	19495
6439	CACUAAAG G CGUUCAG	4188	CUUGAACG GCCGAAAGGCGAGUGAGGUCU CUUUGUG	19496
6441	CUAAAGGC G UUCAAGGA	4189	UCCUUGAA GCCGAAAGGCGAGUGAGGUCU GCCUUUAG	19497
6454	AGGACUUC G CCUCGGGA	4190	UCCCGAGG GCCGAAAGGCGAGUGAGGUCU GAAAGUCCU	19498
6467	GGGAAAC G UUCUCAGA	4191	UCUGAGAA GCCGAAAGGCGAGUGAGGUCU GUUUUCCC	19499
6480	CAGUAGG G UUCUGGGA	4192	UCAUAGAG GCCGAAAGGCGAGUGAGGUCU CCUAUCUG	19500
6490	UCAUUGAG G UUCUGGGA	4193	UCCGAGAA GCCGAAAGGCGAGUGAGGUCU CUCAAUGA	19501
6504	GGAAAGAU G CCUGAGCA	4194	UGCUCAGG GCCGAAAGGCGAGUGAGGUCU UCUUUUCC	19502
6510	AUGCCUGA G CACUUCAU	4195	AUGAAAGG GCCGAAAGGCGAGUGAGGUCU UUCCCAUG	19503
6535	CAUGGGAA G CACUUGAC	4196	GUCAAGUG GCCGAAAGGCGAGUGAGGUCU AUGGUGUC	19504
6549	GACACCAU G UACGUUGU	4197	ACAACGUA GCCGAAAGGCGAGUGAGGUCU GUACAUGG	19505
6553	CGAUUAC G UUGUGGCC	4198	GGCCACAA GCCGAAAGGCGAGUGAGGUCU AACGUACA	19506
6556	UGUACGUU G UGGCCACU	4199	AGUGGCCA GCCGAAAGGCGAGUGAGGUCU CACAACGU	19507
6559	ACGUUGUG G CCACUGCA	4200	UGCAUGUG GCCGAAAGGCGAGUGAGGUCU AGUGGCCA	19508
6565	UGGCCACU G CAGAGAAA	4201	UUUCUCUG GCCGAAAGGCGAGUGAGGUCU UCUUCCUC	19509
6583	GAGGAAGA G CUCACAGA	4202	UCUGUGAG GCCGAAAGGCGAGUGAGGUCU CAUUCUGU	19510
6595	ACAGAAUG G CCGUGGAG	4203	CUCCAGGG GCCGAAAGGCGAGUGAGGUCU AGUUCUUC	19511
6609	GAGGAACU G CCAGAUCC	4204	GCAUCUGG GCCGAAAGGCGAGUGAGGUCU AUCUGGCA	19512
6616	UGCCAGAU G CUCUUCAG	4205	CUGAAGAG GCCGAAAGGCGAGUGAGGUCU AAUUGUCU	19513
6631	AGACAAUU G CCUUGAUU	4206	AAUCAAGG GCCGAAAGGCGAGUGAGGUCU AAUCAAGG	19514
6640	CCUUGAUU G CCUUAUUG	4207	CAUAAGG GCCGAAAGGCGAGUGAGGUCU UCAUAUAG	19515
6650	CUUAUUGA G UGUGAUGA	4208	UCAUCACA GCCGAAAGGCGAGUGAGGUCU ACUCAUA	19516
6652	UAUUGAGU G UGAUGACC	4209	GGUCAUCA GCCGAAAGGCGAGUGAGGUCU UCCCAUGG	19517
6667	CCAUGGGA G UAUUUCUC	4210	GAAGAAUA GCCGAAAGGCGAGUGAGGUCU UCCCAUGG	19518
6684	CUCCUACU G CAGCGGAA	4211	UUCCGTUG GCCGAAAGGCGAGUGAGGUCU AUGAGGAG	19519
6687	CUCAUGCA G CGGAAGGG	4212	CCUUCUCG GCCGAAAGGCGAGUGAGGUCU UGCAUGAG	19520
6695	GCGGAAGG G CAUUGGAA	4213	UCCCAUUG GCCGAAAGGCGAGUGAGGUCU CCUUCGCG	19521
6710	AAAGAUAG G UUUGGGAG	4214	CUCCCAAA GCCGAAAGGCGAGUGAGGUCU CUUUCUUU	19522
6719	UUUGGGAG G CGCUUGUCU	4215	AGACACCG GCCGAAAGGCGAGUGAGGUCU CUCCCAAA	19523
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GCCGAAAGGCGAGUGAGGUCU GCCUCCCA	19524
6724	GAGGCCU G UCUUGGGA	4217	UCCCAAGA GCCGAAAGGCGAGUGAGGUCU AGGCCUUC	19525

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6733	UCUUGGA G UCGGACC	4218	GGUCGGA GCCGAAAGCGAGUGAGGUCU UCCCAAGA	19526
6736	UGGAGUC G CGACCUU	4219	AAAGGUG GCCGAAAGCGAGUGAGGUCU GACUCCCA	19527
6749	CUUUUCU G UUGGAUG	4220	CCAUCGAA GCCGAAAGCGAGUGAGGUCU AGAAAAAG	19528
6757	GUUGAUG G CUGAGUU	4221	AACUUCAG GCCGAAAGCGAGUGAGGUCU CAUCCAAC	19529
6763	UGGCUAA G UCCAGGA	4222	UCCUGAA GCCGAAAGCGAGUGAGGUCU UUCAGCCA	19530
6781	CGAAGAU G CCGGAUG	4223	CAUCCGG GCCGAAAGCGAGUGAGGUCU GAUCUUG	19531
6789	GCGGAU G UUGUGUCU	4224	AGCAGCAA GCCGAAAGCGAGUGAGGUCU AUUCCGGC	19532
6792	GGAUGU G CUGCUCU	4225	GAGAGCAG GCCGAAAGCGAGUGAGGUCU AACAUUCC	19533
6795	AUGUUGU G CUCUCCU	4226	AGGGAGAG GCCGAAAGCGAGUGAGGUCU AGCAACAU	19534
6817	UGAUAU G UGCUAAU	4227	AAUUGCA GCCGAAAGCGAGUGAGGUCU AAUCAUCA	19535
6819	AUGAUUG G CUAUUCU	4228	GGAUUGG GCCGAAAGCGAGUGAGGUCU ACAAUCAU	19536
6831	AUUCUGA G CCAGAGAA	4229	UUCUCUG GCCGAAAGCGAGUGAGGUCU UCAGGAAU	19537
6840	CCAGAGAA G CAACGUC	4230	GAACGUUG GCCGAAAGCGAGUGAGGUCU UUCUCUGG	19538
6845	GACGAC G CCGUGUC	4231	UCUGCGAA GCCGAAAGCGAGUGAGGUCU GUUGCUUC	19539
6849	CAACGUC G CAGACAGA	4232	UCUGUCUG GCCGAAAGCGAGUGAGGUCU GAACGUUG	19540
6864	GACACCA G CUAGCCU	4233	ACGGUUG GCCGAAAGCGAGUGAGGUCU UAGCUGGU	19541
6868	ACCAGUA G CCGUGUC	4234	GAACAGG GCCGAAAGCGAGUGAGGUCU UGGUUGUC	19542
6871	AGCUAGC G UGUUCCU	4235	CAGGAACA GCCGAAAGCGAGUGAGGUCU GGCUAGCU	19543
6873	CUAGCCU G UUCUGAU	4236	AUCAGGAA GCCGAAAGCGAGUGAGGUCU ACGGCUAG	19544
6884	CCUAUUU G UGUCAUG	4237	UCAUGACA GCCGAAAGCGAGUGAGGUCU AAUCAGG	19545
6886	UGAUUUU G UGAUACC	4238	GGUCAUG GCCGAAAGCGAGUGAGGUCU ACAAUCA	19546
6898	UGACCUU G UGACGCA	4239	UGCGUCA GCCGAAAGCGAGUGAGGUCU AAGGUCA	19547
6902	CCUUGUG G CGCAGUG	4240	CCACUGCG GCCGAAAGCGAGUGAGGUCU UCACRAGG	19548
6904	UUGUAGC G CAGUGGCA	4241	UGCCACUG GCCGAAAGCGAGUGAGGUCU GCUCACAA	19549
6907	UGAGCGCA G UGGCAGC	4242	GGCUGCCA GCCGAAAGCGAGUGAGGUCU UGCCCTUCA	19550
6910	GCGCAGU G CAGCCAAC	4243	GUUGGCU GCCGAAAGCGAGUGAGGUCU CACUGCGC	19551
6913	CAGUGGCA G CCAACGAG	4244	CUCGUUG GCCGAAAGCGAGUGAGGUCU UGCCACUG	19552
6926	CGAUGG G UGGCUAG	4245	CUAGCCAA GCCGAAAGCGAGUGAGGUCU CCAUCUCG	19553
6930	AUGGUUG G CUAUAUA	4246	UUAUCUAG GCCGAAAGCGAGUGAGGUCU CAACCCAU	19554
6947	GACCAAG G UGACAUAA	4247	UUAUGUCA GCCGAAAGCGAGUGAGGUCU UCUUGGUC	19555
6956	UGACAUAA G CAGUUUGU	4248	ACAAACUG GCCGAAAGCGAGUGAGGUCU UUAUGUCA	19556
6959	CAUAGCA G UUUUUUG	4249	CAACAAA GCCGAAAGCGAGUGAGGUCU UGCUUAUG	19557
6963	AGCAGUU G UUUUGGCA	4250	UGCCCAA GCCGAAAGCGAGUGAGGUCU AAACUGCU	19558
6969	UUGUUUG G CAAAGAAU	4251	AUUCUUUG GCCGAAAGCGAGUGAGGUCU CCAACAA	19559
6982	GAAUUGA G CAUAGGAG	4252	CUCUUGA GCCGAAAGCGAGUGAGGUCU CUCRAUUC	19560
6998	GAUUUCA G UUGGGAG	4253	CUCUUGG GCCGAAAGCGAGUGAGGUCU UGAAAUUC	19561
7008	AUGGGAG G UUUUUUU	4254	AAAGAAA GCCGAAAGCGAGUGAGGUCU UCUCUCAU	19562
7026	GACUUGA G CCGGCAAC	4255	GUUGCCG GCCGAAAGCGAGUGAGGUCU CUCRAGUC	19563
7030	UGAGGCC G CAACAGC	4256	GGCUUGU GCCGAAAGCGAGUGAGGUCU CGGCCUCA	19564
7036	CGCAACA G CCUGGUCA	4257	UGACGAG GCCGAAAGCGAGUGAGGUCU UGUUGCCG	19565

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7041	ACAGCCUG G UCACUGUA	4258	UACAGUGA GCCGAAAGGCGAGUGAGGUCU CAGGCUGU	19566
7047	UGGUCACU G UACGUGU	4259	ACAGCGUA GCCGAAAGGCGAGUGAGGUCU AGUGACCA	19567
7051	CACUGUAC G CUGUGACA	4260	UGUCACAG GCCGAAAGGCGAGUGAGGUCU GUACAGUG	19568
7054	UGUACGCU G UGACAACA	4261	UGUGUCA GCCGAAAGGCGAGUGAGGUCU AGCGUACA	19569
7063	UGACAACA G CGGUCUCU	4262	GAGGACCG GCCGAAAGGCGAGUGAGGUCU UGUUGUCA	19570
7066	CAACAGCG G UCCUCACU	4263	AGUGAGGA GCCGAAAGGCGAGUGAGGUCU CGCUGUUG	19571
7080	ACUCCACU G CUAAAGCA	4264	UGCUUUG GCCGAAAGGCGAGUGAGGUCU AGUGGAGU	19572
7086	CUGUAAA G CAUUUGAU	4265	AUCAAAUG GCCGAAAGGCGAGUGAGGUCU UUUAGCAG	19573
7098	UUGAUCAC G UCAGAUUA	4266	UUAUCUGA GCCGAAAGGCGAGUGAGGUCU GUGAUCNA	19574
7135	CAAUAAAC G UUCAGGCA	4267	UGCCUGAA GCCGAAAGGCGAGUGAGGUCU GUTUAUUG	19575
7141	ACGUUCAG G CRAUGUCA	4268	UGCACUUG GCCGAAAGGCGAGUGAGGUCU CUGAACGU	19576
7145	UCAGGCAA G UGCACUUA	4269	AUAGUGCA GCCGAAAGGCGAGUGAGGUCU UUGCCUGA	19577
7147	AGGCAAGU G CACUAUUC	4270	GAUAUGUG GCCGAAAGGCGAGUGAGGUCU ACUUGCCU	19578
7162	UCACACUC G CGCGAGGC	4271	GCCUGCG GCCGAAAGGCGAGUGAGGUCU GAGUGUGA	19579
7164	ACACUCGC G CGAGGCUU	4272	AAGCCUCG GCCGAAAGGCGAGUGAGGUCU GCGAGUGU	19580
7169	CGCGCAG G CUUCCCUU	4273	AGGGAAG GCCGAAAGGCGAGUGAGGUCU CUCGCGG	19581
7180	UCCCUUC G UCGAUGU	4274	AACAUGCA GCCGAAAGGCGAGUGAGGUCU GAAGGGA	19582
7186	UCGUCGAU G UUGGAGUG	4275	CACUCCAA GCCGAAAGGCGAGUGAGGUCU AUCGACGA	19583
7192	AUGUUGGA G UUGCGGCU	4276	AGCGACA GCCGAAAGGCGAGUGAGGUCU UCCAACAU	19584
7194	GUUGAGU G UCGGCUU	4277	AGAGCGCA GCCGAAAGGCGAGUGAGGUCU ACUCACAC	19585
7198	GAGUGUG G CUCUCCUG	4278	CAGGAGAG GCCGAAAGGCGAGUGAGGUCU CGACACUC	19586
7206	GCUCUCCU G CUAGCAGC	4279	GCUGUAG GCCGAAAGGCGAGUGAGGUCU AGGAGAGC	19587
7210	UCCUGCUA G CAGCCGGA	4280	UCCGCGUG GCCGAAAGGCGAGUGAGGUCU UAGCAGGA	19588
7213	UGCUAGCA G CCGGAUGC	4281	GCAUCCG GCCGAAAGGCGAGUGAGGUCU UGCUAGCA	19589
7220	AGCCGGAU G CUGGGGAC	4282	GUCCCGAG GCCGAAAGGCGAGUGAGGUCU AUCCGGCU	19590
7231	GGGGACAA G UCACCCUC	4283	GAGGUGA GCCGAAAGGCGAGUGAGGUCU UUGUCCCC	19591
7243	CCUCACC G UUACGGUA	4284	UACCGUAA GCCGAAAGGCGAGUGAGGUCU GUGAGGG	19592
7249	CGGUUACG G UACACAGC	4285	CGCUGUUA GCCGAAAGGCGAGUGAGGUCU CGUAACGG	19593
7255	CGGUAAAC G CGGCAACA	4286	UGUGCCG GCCGAAAGGCGAGUGAGGUCU UGUUACCG	19594
7258	UACACGCG G CACACACU	4287	GAGUGUG GCCGAAAGGCGAGUGAGGUCU CGCUGUUA	19595
7274	CUUUUUU G CCAUAUUG	4288	CAUAGUG GCCGAAAGGCGAGUGAGGUCU AAAAAAGG	19596
7282	GCACUAU G CCUACAUJ	4289	CAUGUAG GCCGAAAGGCGAGUGAGGUCU AUAGUGGC	19597
7291	CUACAUJ G UUCCCGJU	4290	ACCGGAA GCCGAAAGGCGAGUGAGGUCU CAUGUAGG	19598
7298	GGUCCCG G UUGGCNAG	4291	CUUGCCA GCCGAAAGGCGAGUGAGGUCU CGGGAACC	19599
7302	CGCGUUG G CRAAGCUA	4292	UCAGCUUG GCCGAAAGGCGAGUGAGGUCU CAACCGGG	19600
7306	GUUGGCAA G CUGAGGCA	4293	UGCCUCAG GCCGAAAGGCGAGUGAGGUCU UUGCCACAC	19601
7312	AAGCUBAG G CAAUGCGC	4294	GCACAUUG GCCGAAAGGCGAGUGAGGUCU CUCAGCUU	19602
7317	GAGGCAAU G CGCUCAGC	4295	GCUGAGCG GCCGAAAGGCGAGUGAGGUCU AUUGCCUC	19603
7319	GGCAUJG G CUCAGCCC	4296	GGGCUJAG GCCGAAAGGCGAGUGAGGUCU GCAUUGCC	19604
7324	UGCGCUCA G CCACGCG	4297	CCGCTUGG GCCGAAAGGCGAGUGAGGUCU UGAGCGCA	19605

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7329	UCAGCCCA G CGCGGAC	4298	GUCGCCC GCCGAAAGGCGAGUGAGGUCU UGGGCTGA	19606
7332	GCCACGC G CGACACG	4299	GCUGUCG GCCGAAAGGCGAGUGAGGUCU CGUGGGC	19607
7339	GGCGACA G CGCGGGA	4300	UCCGCGC GCCGAAAGGCGAGUGAGGUCU UGUCGCGC	19608
7342	GCACGC G CCGAAUC	4301	GAUUCGG GCCGAAAGGCGAGUGAGGUCU CGCUGUCC	19609
7360	UGAAGAC G CUUAGUG	4302	CACUACG GCCGAAAGGCGAGUGAGGUCU GUUCUUA	19610
7363	AGAACGC G UAGUGAU	4303	AUCCACA GCCGAAAGGCGAGUGAGGUCU AGCGUUC	19611
7366	ACGCUUA G UGAUGGC	4304	GCCAUCCA GCCGAAAGGCGAGUGAGGUCU UACAGCU	19612
7373	AGUGAUG G CAUGGUG	4305	CCACGAU GCCGAAAGGCGAGUGAGGUCU CAUCCACU	19613
7378	AUGCAUC G UGGCCACG	4306	CGUGGCA GCCGAAAGGCGAGUGAGGUCU GAUGCCAU	19614
7381	GCAUCUG G CCACGGAC	4307	GUCGUGG GCCGAAAGGCGAGUGAGGUCU CACGAUGC	19615
7390	CCACGGAC G UCCAGAA	4308	UUCUGGA GCCGAAAGGCGAGUGAGGUCU GUCCGUGG	19616
7404	GAUUAUA G CGCACAC	4309	GUGUGCG GCCGAAAGGCGAGUGAGGUCU UCUAAUUC	19617
7406	AUAGAGC G CACACAC	4310	GUGUGUG GCCGAAAGGCGAGUGAGGUCU GCUCUAAU	19618
7422	CCCAUCA G CAGAGAA	4311	UUCUUCG GCCGAAAGGCGAGUGAGGUCU AUGAUGG	19619
7432	AGAAGAA G UUGACAG	4312	CUGUCCA GCCGAAAGGCGAGUGAGGUCU UUCUUCU	19620
7446	CAGAUCAU G CUGAUUU	4313	AGAUCAG GCCGAAAGGCGAGUGAGGUCU AUGAUCUG	19621
7456	UGAUCUG G UGUUCUA	4314	UAGAGACA GCCGAAAGGCGAGUGAGGUCU CAAGAUA	19622
7458	AUCUUGU G UUCUAGC	4315	GUAGAGA GCCGAAAGGCGAGUGAGGUCU ACCAAGAU	19623
7465	UGUCUCA G CUCAGUA	4316	UACUGCAG GCCGAAAGGCGAGUGAGGUCU UAGAGACA	19624
7468	CUUAGCU G CAGUAUA	4317	UUCACAG GCCGAAAGGCGAGUGAGGUCU AGCUAGAG	19625
7471	UAGUGCA G UAGUAGU	4318	CACUACUA GCCGAAAGGCGAGUGAGGUCU UGCAGCUA	19626
7474	CUGCAGU G UAGUGAC	4319	GUUCACUA GCCGAAAGGCGAGUGAGGUCU UACUGCAG	19627
7477	CAGUAGU G UGAACCG	4320	CGGUUCA GCCGAAAGGCGAGUGAGGUCU UACUACUG	19628
7485	GUGAACCC G UCUGUGAA	4321	UUCACAGA GCCGAAAGGCGAGUGAGGUCU GGUUUCAC	19629
7489	ACCGGUC G UAGAGACA	4322	UGUCUUA GCCGAAAGGCGAGUGAGGUCU AGACGGU	19630
7498	UAGAGACA G UACGAGAA	4323	UUCUCGUA GCCGAAAGGCGAGUGAGGUCU UGUCUUA	19631
7507	UACGAGAA G CCGGAUU	4324	AUUCGCG GCCGAAAGGCGAGUGAGGUCU UUCUCGUA	19632
7525	UGAUCAG G CGCAGCG	4325	CGTUGCG GCCGAAAGGCGAGUGAGGUCU CGUGAUA	19633
7528	UCACGGCC G CAGCGUG	4326	CACGCGU GCCGAAAGGCGAGUGAGGUCU GCGCGUA	19634
7531	CGGCCGA G CGGUGAC	4327	CGUCACG GCCGAAAGGCGAGUGAGGUCU UGCGGCCG	19635
7534	CGCAGCG G UACGCUU	4328	AAGGCUA GCCGAAAGGCGAGUGAGGUCU CGTUGCGG	19636
7539	GCGUGAG G CUUUGGA	4329	UCCCAAG GCCGAAAGGCGAGUGAGGUCU GUACCCG	19637
7555	AGAAUGA G CAAGUCU	4330	AGAGCUU GCCGAAAGGCGAGUGAGGUCU UCCAUUCU	19638
7559	UGAUGCA G CUUGUUU	4331	AAACAGG GCCGAAAGGCGAGUGAGGUCU UUGUCUA	19639
7564	CAAGCUC G UUGUGAAC	4332	GUUCCAA GCCGAAAGGCGAGUGAGGUCU AGAGCUUG	19640
7573	UUUGBAC G CAACAAC	4333	AGUUGUG GCCGAAAGGCGAGUGAGGUCU GUUCCAAA	19641
7582	CAACAAC G CCAUCGA	4334	UCCGAUG GCCGAAAGGCGAGUGAGGUCU AGUUGUUG	19642
7595	CGGACUC G CCACAUA	4335	UGAUGUG GCCGAAAGGCGAGUGAGGUCU AGAGUCCG	19643
7605	CACAUCU G CGUGGGG	4336	CCCCCAG GCCGAAAGGCGAGUGAGGUCU AUGAUGUG	19644
7607	CAUCAUC G UGGGGUU	4337	AACCCCA GCCGAAAGGCGAGUGAGGUCU GCAUGUG	19645

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7613	GCUGGGG G UUGUGU	4338	ACACCAA GCCAAAGGCGAGUGAGGUCU CCCACGC	19646
7617	GGGUGUG G UUGUCU	4339	CAUGACAA GCCAAAGGCGAGUGAGGUCU CAACCCC	19647
7620	GUGUGUU G UCAUGUCU	4340	AGACAUCA GCCAAAGGCGAGUGAGGUCU AACCAACC	19648
7625	GUGUCU G UCAUCCA	4341	UGGAUAGA GCCAAAGGCGAGUGAGGUCU AUGACAAC	19649
7682	AAAAAG G UGGGCAA	4342	UUGCCCCA GCCAAAGGCGAGUGAGGUCU CUCUUUUU	19650
7687	GAGUGGG G CAAAAGGA	4343	UCCUUUG GCCAAAGGCGAGUGAGGUCU CCCACCUC	19651
7697	AAAAGGAC G CACCUUG	4344	CCAAGGUG GCCAAAGGCGAGUGAGGUCU GUCCUUU	19652
7711	UGGAGAG G UUUGAAA	4345	UUUCCAAA GCCAAAGGCGAGUGAGGUCU CUCUCCCA	19653
7749	AAAGAGA G UUCACUAG	4346	CUAGUGAA GCCAAAGGCGAGUGAGGUCU UCUUUUUU	19654
7758	UUCACUAG G UACCGCAA	4347	UUGCGGUA GCCAAAGGCGAGUGAGGUCU CUAGUGAA	19655
7763	UAGGUACC G CAAAGAGG	4348	CCUCUUUG GCCAAAGGCGAGUGAGGUCU GGUACCUA	19656
7771	GCAAGAG G CAUUAUC	4349	GGAUUGG GCCAAAGGCGAGUGAGGUCU CUCUUUGC	19657
7783	UCAUCGAA G UCGAUCGC	4350	GCGAUCGA GCCAAAGGCGAGUGAGGUCU UUCGAUGA	19658
7790	AGUCGAC G CUCAGCG	4351	CCGCUAG GCCAAAGGCGAGUGAGGUCU GAUCGACU	19659
7795	AUCGCUA G CGGCAAAA	4352	UUUUGCG GCCAAAGGCGAGUGAGGUCU UGAGCGAU	19660
7798	GCUCAGC G CAAAACAC	4353	GUGUUUG GCCAAAGGCGAGUGAGGUCU CCGUGAGC	19661
7807	CAAAAGG G CCAGGAAA	4354	UUUCCUG GCCAAAGGCGAGUGAGGUCU GUGUUUUG	19662
7820	AAAAGAG G CAUUAUC	4355	UUGACUUG GCCAAAGGCGAGUGAGGUCU CUUCUUUC	19663
7825	AAGGCAA G UCACUGA	4356	UCCAGUUA GCCAAAGGCGAGUGAGGUCU AUUGCCUU	19664
7836	ACUGAGG G CAUCCAGU	4357	ACUGGAUG GCCAAAGGCGAGUGAGGUCU CCUCCAGU	19665
7843	GGCAUCCA G UCUCUAGG	4358	CCUAGAGA GCCAAAGGCGAGUGAGGUCU UGGAUGCC	19666
7853	CUCUAGG G CACAGCAA	4359	UUGCUGUG GCCAAAGGCGAGUGAGGUCU CCCUAGAG	19667
7858	GGGCGCA G CAAAACUG	4360	CAGUUUUG GCCAAAGGCGAGUGAGGUCU UGUGCCCC	19668
7872	CUGAGUUG G CUGGUCGA	4361	UCGACGAG GCCAAAGGCGAGUGAGGUCU CAUCUCAG	19669
7876	GAUGGUG G UCGAACGG	4362	CCGUUCGA GCCAAAGGCGAGUGAGGUCU CAGCCAU	19670
7887	GAACGAG G UUUCUGA	4363	UCGAGAAA GCCAAAGGCGAGUGAGGUCU CUCCGUUC	19671
7900	UCGAACCG G UCGGAAA	4364	UUUUCGA GCCAAAGGCGAGUGAGGUCU CGGUUCGA	19672
7909	UCGGAAGA G UGAUUGAC	4365	GUCAAUCA GCCAAAGGCGAGUGAGGUCU UUUUCGA	19673
7925	CCUUGAU G UGGAAGAG	4366	CUCUUCCA GCCAAAGGCGAGUGAGGUCU AUCCAAGG	19674
7934	UGGAAGAG G CGGUUGU	4367	ACCAACCG GCCAAAGGCGAGUGAGGUCU CUCUUCCA	19675
7937	AAGAGGCG G UGUUAUA	4368	AACACCAA GCCAAAGGCGAGUGAGGUCU CGCCUUCU	19676
7941	GGCGGUG G UGUUAUA	4369	UAGUAACA GCCAAAGGCGAGUGAGGUCU CAACCGCC	19677
7943	CGGUUGU G UUAUAUA	4370	UAUAGUAA GCCAAAGGCGAGUGAGGUCU ACCAACCG	19678
7954	ACUAUUG G CAACCCMA	4371	UUGGUGUG GCCAAAGGCGAGUGAGGUCU CAUAUAGU	19679
7969	AAAAAGA G UCCAAGAA	4372	UUUUUGGA GCCAAAGGCGAGUGAGGUCU UCUUUUUU	19680
7978	UCCAAGAA G UCAGAGGG	4373	CCUUCUGA GCCAAAGGCGAGUGAGGUCU UUUCUUGA	19681
7986	GUCAAGG G UACACAAA	4374	UUUUGUGA GCCAAAGGCGAGUGAGGUCU CCUCUGAC	19682
7997	CACAAAG G CGUCCCG	4375	CGGACCG GCCAAAGGCGAGUGAGGUCU CCUUUGUG	19683
8000	AAAGGCG G UCCCGGAC	4376	GUCCGGGA GCCAAAGGCGAGUGAGGUCU CGCCUUU	19684
8016	CAUGAGA G CCCCACU	4377	AGUUGGG GCCAAAGGCGAGUGAGGUCU UCUUCAUG	19685

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8026	CCCAACUA G UGCAAGU	4378	ACUUUGCA GCCAAAGGCGAGUGAGGUCU UAGUUGGG	19686
8028	CAACUAGU G CAAAGUUA	4379	UAAUUUG GCCAAAGGCGAGUGAGGUCU ACUAGUUG	19687
8033	AGUGCAAA G UUAUGGAU	4380	AUCCAUA GCCAAAGGCGAGUGAGGUCU UUUUGCACU	19688
8050	GAACAAU G UCACCAUG	4381	CAUGGUGA GCCAAAGGCGAGUGAGGUCU AAUUGUCC	19689
8063	CAAGAAG G UGAGUGGG	4382	CCACUCCA GCCAAAGGCGAGUGAGGUCU UCUUCAUG	19690
8068	AGAGUGA G UGGAUGUG	4383	CAUCAUA GCCAAAGGCGAGUGAGGUCU UCCACUCU	19691
8074	GAGUGAU G UGUUCUAC	4384	GUAGAACA GCCAAAGGCGAGUGAGGUCU AUCCACUC	19692
8076	GUGGAUGU G UUCUACAG	4385	CUGUAGAA GCCAAAGGCGAGUGAGGUCU ACAUCCAC	19693
8094	CCUUCUGA G UGUUGUGA	4386	UCACAACA GCCAAAGGCGAGUGAGGUCU UCAGAAGG	19694
8096	UUCUGAGU G UUGUGACA	4387	UGUCACAA GCCAAAGGCGAGUGAGGUCU ACUCAGAA	19695
8099	UGAGUUGU G UGACACCC	4388	GGGUGUCA GCCAAAGGCGAGUGAGGUCU AACACUCA	19696
8114	CCUCCUUU G UGACAUCC	4389	CGAUGUCA GCCAAAGGCGAGUGAGGUCU AAAGGAGG	19697
8127	AUCGGAGA G UCCUCGUC	4390	GACGAGGA GCCAAAGGCGAGUGAGGUCU UCTUCCGAU	19698
8133	GAGUCCUC G UCAAGUUC	4391	GCACUUGA GCCAAAGGCGAGUGAGGUCU GAGGACUC	19699
8138	CUCGUCAA G UGCUAGG	4392	CCUCAGCA GCCAAAGGCGAGUGAGGUCU UUGACGAG	19700
8140	CGUCAAGU G CUGAGGUU	4393	AACUCACG GCCAAAGGCGAGUGAGGUCU ACUUGACG	19701
8146	GUGCUGAG G UUGAAGAG	4394	CUUUCUAA GCCAAAGGCGAGUGAGGUCU CUCAGCAC	19702
8154	GUUGAAGA G CAUAGGAC	4395	GUCCUAUG GCCAAAGGCGAGUGAGGUCU UCUUCAAC	19703
8170	CGAUUCGG G UCCUUGAA	4396	UUCAAGGA GCCAAAGGCGAGUGAGGUCU CCGAUUCG	19704
8182	UUGAAUUG G UUGAGGAC	4397	GUCCUCAA GCCAAAGGCGAGUGAGGUCU CAUUUCA	19705
8193	GAGGACUG G CUGCACC	4398	CGGUGCAG GCCAAAGGCGAGUGAGGUCU CAGUCCUC	19706
8196	GACUGGCU G CACCAGG	4399	CUUCGGUG GCCAAAGGCGAGUGAGGUCU AGCCAGUC	19707
8205	CACCGAGG G CCAAGGGA	4400	UCCCUUGG GCCAAAGGCGAGUGAGGUCU CUCGGUG	19708
8219	GGAAUUUU G CGUGAAGG	4401	CUUCACG GCCAAAGGCGAGUGAGGUCU AAAUUC	19709
8221	AAUUUUG G UGAAGGUG	4402	CACCUUCA GCCAAAGGCGAGUGAGGUCU GCAAAAUU	19710
8227	GCUGAAG G UGCUUGC	4403	GCAGAGCA GCCAAAGGCGAGUGAGGUCU CUUCACGC	19711
8229	GUGAAGGU G CUCUGCCC	4404	GGGCAGAG GCCAAAGGCGAGUGAGGUCU ACCUUCAC	19712
8234	GGUGUCU G CCCUACA	4405	UGUAGGGG GCCAAAGGCGAGUGAGGUCU AGAGCAC	19713
8244	CCCUACAU G CCGAAGU	4406	ACUUUCGG GCCAAAGGCGAGUGAGGUCU AUGUAGGG	19714
8251	UGCGAAA G UCAUAGAG	4407	CUCUAUGA GCCAAAGGCGAGUGAGGUCU UUUCCGCA	19715
8268	AGAUGGA G CUGCUCCA	4408	UGGAGCAG GCCAAAGGCGAGUGAGGUCU UCCAUCUU	19716
8271	AUGAGCU G CUCCNACG	4409	CGUUGAG GCCAAAGGCGAGUGAGGUCU AGCUCCAU	19717
8279	GCUCCAAC G CCGUAUUG	4410	CAUACCGG GCCAAAGGCGAGUGAGGUCU GUUGGAGC	19718
8283	CAACGCCG G UAUGGGG	4411	CCCCCAUA GCCAAAGGCGAGUGAGGUCU CGCGUUG	19719
8299	GGGACUG G UCAGNAAC	4412	GUUUCUGA GCCAAAGGCGAGUGAGGUCU CAGUCCCC	19720
8328	AAUUCAC G CACGAGAU	4413	AUUCUGUG GCCAAAGGCGAGUGAGGUCU GUGGAUUU	19721
8337	CACGAGAU G UAUGGGU	4414	ACCCAUA GCCAAAGGCGAGUGAGGUCU AUUCUGUG	19722
8344	UGUAUUGG G UGAGUCGA	4415	UCGACUCA GCCAAAGGCGAGUGAGGUCU CCAAUACA	19723
8348	UUGGGUGA G UCGAGCUU	4416	AAGUCUGA GCCAAAGGCGAGUGAGGUCU UCACCCAA	19724
8353	UGAGUCGA G CUUCAGGC	4417	GCCUGAAG GCCAAAGGCGAGUGAGGUCU UCGACUCA	19725

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8360	AGCUUCAG G CAAUGUGG	4418	CCACAUUG GCCGAAAGCGAGUGAGGUCU CUGAAGCU	19726
8365	CHAGGCAU G UGGUACAU	4419	AUGUACCA GCCGAAAGCGAGUGAGGUCU AUUGCCUG	19727
8368	GCAUUGUG G UACAUIUA	4420	UGAAUGUA GCCGAAAGCGAGUGAGGUCU CACAUUGC	19728
8377	UACAUUCA G UGAAUADG	4421	CAUAUUCA GCCGAAAGCGAGUGAGGUCU UGAAUGUA	19729
8390	UACAUCCA G CAGGUGC	4422	GCACCTUG GCCGAAAGCGAGUGAGGUCU UGGUCAUA	19730
8395	CCAGCCAG G UGCUCCUA	4423	UGGAGGCA GCCGAAAGCGAGUGAGGUCU CUGGCUGG	19731
8397	AGCCAGGU G CUCCUAGG	4424	CCUAGGAG GCCGAAAGCGAGUGAGGUCU ACCUGGCU	19732
8452	AGGAAGAU G UAAACUUG	4425	CRAGUUUA GCCGAAAGCGAGUGAGGUCU AUCUUCUU	19733
8465	CUUGGGAA G UGGAACCA	4426	UGGUUCCA GCCGAAAGCGAGUGAGGUCU UUCCCAAG	19734
8476	GAACCAAG G CGGUGGGA	4427	UCCCAACG GCCGAAAGCGAGUGAGGUCU CUUGGUUC	19735
8479	CCAGGGCG G UGGGNAAA	4428	UUUUCCCA GCCGAAAGCGAGUGAGGUCU CGCCUUGG	19736
8493	AAACCCCU G CUCAACUC	4429	GAGUUGAG GCCGAAAGCGAGUGAGGUCU AGGGGUUU	19737
8510	AGACACCA G UAAAUAUA	4430	UGAUUUUA GCCGAAAGCGAGUGAGGUCU UGGUGUCU	19738
8541	CGACUCAG G CGUGAGUA	4431	UAUCACAG GCCGAAAGCGAGUGAGGUCU CUGAGUCG	19739
8543	ACUCAGGC G UGAGUACA	4432	UGUACUCA GCCGAAAGCGAGUGAGGUCU GCCUGAGU	19740
8547	AGGCGUGA G UACAGUUC	4433	GRAUCUGA GCCGAAAGCGAGUGAGGUCU UCACGCCU	19741
8552	UGAGUACA G UUCQACGU	4434	ACGUCGAA GCCGAAAGCGAGUGAGGUCU UGUACUCA	19742
8559	AGUUCGAC G UGGCACCA	4435	UGUGGCCA GCCGAAAGCGAGUGAGGUCU GUUGAACT	19743
8562	UGGACGUG G CACCACGA	4436	UCGUGGUG GCCGAAAGCGAGUGAGGUCU CACGUCGA	19744
8606	CUAUCAG G CAGUUAUG	4437	CAUAACUG GCCGAAAGCGAGUGAGGUCU CGUGAUAG	19745
8609	UACAGGCA G UUAUGAUG	4438	CAUCAUAA GCCGAAAGCGAGUGAGGUCU UGCCGUGA	19746
8617	GUUAUGAU G UGAAGCC	4439	GGGCUUCA GCCGAAAGCGAGUGAGGUCU AUCAUAAC	19747
8622	GAUGUAAA G CCCACAGG	4440	CCUGUGGG GCCGAAAGCGAGUGAGGUCU UUCACAUC	19748
8630	GCCACAG G CUCCGCCA	4441	UGGCGGAG GCCGAAAGCGAGUGAGGUCU CUGUGGGC	19749
8635	CAGGCUCC G CCAGUUGG	4442	CGAACUGG GCCGAAAGCGAGUGAGGUCU GGAGCCUG	19750
8639	CUCCGCCA G UUCGCUUG	4443	CCAGCGAA GCCGAAAGCGAGUGAGGUCU UGGCGGAG	19751
8643	GCCAGUUC G CUGGUCAA	4444	UUGACCCAG GCCGAAAGCGAGUGAGGUCU GAACUGGC	19752
8647	GUUCGCUG G UCAUUGGA	4445	UCCAUUGA GCCGAAAGCGAGUGAGGUCU CAGCGAAC	19753
8656	UCAUUGGA G UGGUACAG	4446	CCUGACCA GCCGAAAGCGAGUGAGGUCU UCCAUUGA	19754
8659	AUGGAGUG G UCAGGCUC	4447	GAGCCUGA GCCGAAAGCGAGUGAGGUCU CACUCCAU	19755
8664	GUGGUACG G CUCCUCUC	4448	GAGAGGAG GCCGAAAGCGAGUGAGGUCU CUGACCCAC	19756
8698	UCACGAU G UUACCAAC	4449	GGUGGUAA GCCGAAAGCGAGUGAGGUCU AUUCGUGA	19757
8710	CCACCAUG G CCAUGACU	4450	AGUCAUGG GCCGAAAGCGAGUGAGGUCU CAUGGUGG	19758
8736	CCUUCGCG G CAGCAGCG	4451	CGCUGCUG GCCGAAAGCGAGUGAGGUCU CCGAAGGG	19759
8739	UUCGGGCA G CAGCGAGU	4452	ACUCGCUU GCCGAAAGCGAGUGAGGUCU UGCCCGAA	19760
8742	GGGCAGCA G CGAGUGUU	4453	AACACUGG GCCGAAAGCGAGUGAGGUCU UGCUGCCC	19761
8746	AGCAGCGA G UGUUCAAA	4454	UUUGAACA GCCGAAAGCGAGUGAGGUCU UCGCUGCU	19762
8748	CAGCGAGU G UUCAAAAG	4455	UUCUUGAA GCCGAAAGCGAGUGAGGUCU ACUCGCUG	19763
8761	AAGAGNAG G UGGACACG	4456	CGUGUCCA GCCGAAAGCGAGUGAGGUCU CUUCUCUU	19764
8773	ACACGAAA G CUCCUGAA	4457	UUCAGGAG GCCGAAAGCGAGUGAGGUCU UUUCGUGU	19765

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8784	CCUGAACG G CCAGAAAG	4458	CCUUCUGG GCCGAAAGGCGAGUGAGGUCU	GGUUCAGG	19766
8794	CAGAAAGG G UGAAGUAC	4459	GUACUUA GCCGAAAGGCGAGUGAGGUCU	UCCUUCUG	19767
8799	GGAGAGAA G UAGUGUCU	4460	AGCACGUA GCCGAAAGGCGAGUGAGGUCU	UUCACUCC	19768
8803	UGAAGUAC G UGCUCAAU	4461	AUUGAGCA GCCGAAAGGCGAGUGAGGUCU	GUACUUA	19769
8805	AAGUACGU G CUCAAUGA	4462	UCAUUGAG GCCGAAAGGCGAGUGAGGUCU	AGUACUUA	19770
8826	ACCACUG G UUGUGGGC	4463	GCCACAA GCCGAAAGGCGAGUGAGGUCU	CAGUUGGU	19771
8829	AACUGGUU G UGGGCGUU	4464	AACGCCCA GCCGAAAGGCGAGUGAGGUCU	AACCAAGU	19772
8833	GGUUGG G CGUUUUUG	4465	CAAAACG GCCGAAAGGCGAGUGAGGUCU	CCACAACC	19773
8835	UUGUGGGC G UUUUUGGC	4466	GCCAAAA GCCGAAAGGCGAGUGAGGUCU	GCCACACA	19774
8842	CGUUUUUG G CCAGAGAA	4467	UUCUCUGG GCCGAAAGGCGAGUGAGGUCU	CAAAAACG	19775
8855	AGAAAAC G UCCAGAA	4468	UUCUGGGA GCCGAAAGGCGAGUGAGGUCU	GUUUUUUU	19776
8865	CCAGAAU G UGCUCUCG	4469	CGAGAGCA GCCGAAAGGCGAGUGAGGUCU	AUUCUGGG	19777
8867	CAGAAUG G CUCUCGAG	4470	CUCGAGAG GCCGAAAGGCGAGUGAGGUCU	ACAUUUGG	19778
8893	UAGAAAG G UCAACAGC	4471	GCUGUUGA GCCGAAAGGCGAGUGAGGUCU	CUUUCUUA	19779
8900	GGUACACA G CAAUGCAG	4472	CUGCAUUG GCCGAAAGGCGAGUGAGGUCU	UGUUGACC	19780
8905	ACAGCAU G CAGUUUUG	4473	CAAAAGCUG GCCGAAAGGCGAGUGAGGUCU	AUUGCUGU	19781
8908	GCAUUGA G CUUUGGGU	4474	ACCCAAAG GCCGAAAGGCGAGUGAGGUCU	UGCAUUGC	19782
8915	AGUUUUG G UGCCAUGU	4475	ACAUUGCA GCCGAAAGGCGAGUGAGGUCU	CCAAAAGC	19783
8917	CUUUGGU G CCAUUGUU	4476	AAACAUGG GCCGAAAGGCGAGUGAGGUCU	ACCCAAAG	19784
8922	GGUGCCAU G UUGAAGA	4477	UCUUCAAA GCCGAAAGGCGAGUGAGGUCU	AUGGCACC	19785
8931	UUUGAAGA G CAGAAUCA	4478	UGAUUUCUG GCCGAAAGGCGAGUGAGGUCU	UCUUCAAA	19786
8948	AUGGAGGA G CGCCAGAG	4479	CUCUGGCG GCCGAAAGGCGAGUGAGGUCU	UCCUCCAU	19787
8950	GGAGGAGC G CCAGAGAA	4480	UUCUCUGG GCCGAAAGGCGAGUGAGGUCU	GCUCUCC	19788
8959	CCAGAGAA G CAGUUGAA	4481	UUCACACUG GCCGAAAGGCGAGUGAGGUCU	UUCUCUGG	19789
8962	GAGAGCA G UUGAAGAU	4482	AUCUUCAA GCCGAAAGGCGAGUGAGGUCU	UGCUUCUC	19790
8989	GGGAGUG G UGAUGAG	4483	CUCAUCCA GCCGAAAGGCGAGUGAGGUCU	CAUCUCCC	19791
9000	GAUGAGGA G CGCAGGC	4484	GCCUUGCG GCCGAAAGGCGAGUGAGGUCU	UCCUCAUC	19792
9002	UGAGGAGC G CGAGGCAC	4485	GUUGCUCG GCCGAAAGGCGAGUGAGGUCU	GCUCUCA	19793
9007	AGCGCAG G CACAUCUG	4486	CAGAUGUG GCCGAAAGGCGAGUGAGGUCU	CUCGCGCU	19794
9015	GCACAUU G CGGGGGGA	4487	UCCCCCG GCCGAAAGGCGAGUGAGGUCU	AGAUGUGC	19795
9026	GGGGGAU G UCACACUU	4488	AAGUGUGA GCCGAAAGGCGAGUGAGGUCU	AUUCUCCC	19796
9035	UCACACUU G CAUUUACA	4489	UGUAAUUG GCCGAAAGGCGAGUGAGGUCU	AAGUGUGA	19797
9078	CCCGGAGA G UUCGGAAA	4490	UUUCCGAA GCCGAAAGGCGAGUGAGGUCU	UCUCGCGG	19798
9088	UCCGAAAG G CCAAGGGA	4491	UCCUUGG GCCGAAAGGCGAGUGAGGUCU	CUUUCCGA	19799
9098	CAAGGAA G CAGAGCCA	4492	UGGCUUUG GCCGAAAGGCGAGUGAGGUCU	UUCUCCUUG	19800
9103	GAAGCAGA G CAAUUUG	4493	CCAAAUGG GCCGAAAGGCGAGUGAGGUCU	UCUGCUUC	19801
9111	GCAUUUG G UUCAUGUG	4494	CACAUGAA GCCGAAAGGCGAGUGAGGUCU	CAAAUGGC	19802
9117	UGGUUCAU G UGGCUCGG	4495	CCAGGCCA GCCGAAAGGCGAGUGAGGUCU	AUGAACCA	19803
9120	UUCAUUG G CUCGGAGC	4496	GCUCGAG GCCGAAAGGCGAGUGAGGUCU	CACAUGAA	19804
9127	GGCUCGGA G CUCGCUUU	4497	AAAGCGAG GCCGAAAGGCGAGUGAGGUCU	UCCGAGCC	19805

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9131	CGAGGTC G CUUUCUGG	4498	CCAGAAAG GCCGAAAGCGAGUGAGGUCU GAGCUCGG	19806
9141	UUUCUGGA G UUCGAGGC	4499	GCCUCGAA GCCGAAAGCGAGUGAGGUCU UCCAGAAA	19807
9148	AGUUCGAG G CUCUGGGU	4500	ACCCAGAG GCCGAAAGCGAGUGAGGUCU CUCGAACU	19808
9155	GGCUCUGG G UUUCUCA	4501	UGAGAAA GCCGAAAGCGAGUGAGGUCU CCAGAGCC	19809
9177	GACCACUG G UUUGAAG	4502	CUUCGAA GCCGAAAGCGAGUGAGGUCU CAGUGGUC	19810
9203	AGAGGAG G UGUUGAGG	4503	CCUCGACA GCCGAAAGCGAGUGAGGUCU CUCCUCCU	19811
9205	GAGAGGU G UCGAGGGC	4504	GGCCUCGA GCCGAAAGCGAGUGAGGUCU ACCUCCUC	19812
9212	UGUCGAGG G CUUGGGCC	4505	GGCCCAAG GCCGAAAGCGAGUGAGGUCU CCUCGACA	19813
9218	GGGCUUGG G CCUCCAAA	4506	UUUGAGG GCCGAAAGCGAGUGAGGUCU CCAAGGCC	19814
9233	AAACUGG G UACAUCC	4507	GGAGUAA GCCGAAAGCGAGUGAGGUCU CCAGUUUU	19815
9243	UACAUCCU G CGUGAAGU	4508	ACUUCACG GCCGAAAGCGAGUGAGGUCU AGGAUGUA	19816
9245	CAUCCUGC G UGAAGUUG	4509	CAACUUA GCCGAAAGCGAGUGAGGUCU GCAGGAUG	19817
9250	UGGUGAA G UUGGCACC	4510	GGGCCCCA GCCGAAAGCGAGUGAGGUCU UUCACGCA	19818
9254	UGAAGUG G CACCGGCG	4511	GCCGGGUG GCCGAAAGCGAGUGAGGUCU CAACUUA	19819
9261	GGCACCCG G CUGGGGG	4512	CCCCCAG GCCGAAAGCGAGUGAGGUCU CGGGUGCC	19820
9269	GCCVEGGG G CAAGAUCU	4513	AGAUCUUG GCCGAAAGCGAGUGAGGUCU CCCCAGGC	19821
9280	AGAUCAU G CUGAUGAC	4514	GUCAUCA GCCGAAAGCGAGUGAGGUCU AUAGAUCU	19822
9292	AUGACACA G CUGGCUUG	4515	CCAGCCAG GCCGAAAGCGAGUGAGGUCU UGUGUCAU	19823
9296	CACAGCUG G CUGGGACA	4516	UGUCCAG GCCGAAAGCGAGUGAGGUCU CAGCUGUG	19824
9308	GGAACCC G CAUCACGA	4517	UCGUGAUG GCCGAAAGCGAGUGAGGUCU GGGUGUCC	19825
9319	UACAGAGA G CUGACUUG	4518	CAAGUCAG GCCGAAAGCGAGUGAGGUCU UCUCGUGA	19826
9337	AAAUUGA G CUAAGGUG	4519	CACCUUAG GCCGAAAGCGAGUGAGGUCU UUCAUUUU	19827
9343	AAACUAG G UGCUUGAG	4520	CUCAAGCA GCCGAAAGCGAGUGAGGUCU CUUAGCUU	19828
9345	GUAAGGU G CUUGAGCU	4521	AGUCUAG GCCGAAAGCGAGUGAGGUCU ACCUAGC	19829
9351	GUUCUUGA G CUGCUUGA	4522	UCAAAGCA GCCGAAAGCGAGUGAGGUCU UCAAGCAC	19830
9354	CUUGAGCU G CUUGAUGG	4523	CCAUCAG GCCGAAAGCGAGUGAGGUCU AGCUCNAG	19831
9372	GAACAUUG G CGUCUUGC	4524	GCAAGACG GCCGAAAGCGAGUGAGGUCU CGAUGUUC	19832
9374	ACAUCGGC G UCUUGCCA	4525	UGGCAAGA GCCGAAAGCGAGUGAGGUCU GCCGAUGU	19833
9379	GGGUCUU G CCAGGGCC	4526	GGCCUUG GCCGAAAGCGAGUGAGGUCU AAGACGCC	19834
9385	UUGCCAGG G CCAUCAUU	4527	AAUGAUG GCCGAAAGCGAGUGAGGUCU CCUGGCAA	19835
9396	AUCAUGA G CUCACCUA	4528	UAGGUGAG GCCGAAAGCGAGUGAGGUCU UCAUGAU	19836
9407	CACCUAUC G UCACAAAG	4529	CUUUGUGA GCCGAAAGCGAGUGAGGUCU GAUAGGUG	19837
9415	GUACACAA G UUUGAATA	4530	UUUCACAA GCCGAAAGCGAGUGAGGUCU UUUGUGAC	19838
9418	ACAAAGUU G UGAAGUG	4531	CACUUUA GCCGAAAGCGAGUGAGGUCU AACUUUGU	19839
9424	UUUGAAA G UGAUGCC	4532	GGCAUCA GCCGAAAGCGAGUGAGGUCU UUUCACAA	19840
9429	AAAGAAU G CGCCCGGC	4533	GCCGGGC GCCGAAAGCGAGUGAGGUCU AUCACUUU	19841
9431	AGUGAUG G CCGGCGUG	4534	CAGCCGG GCCGAAAGCGAGUGAGGUCU GCAUCACU	19842
9436	UCCGCCG G CUGCUAGU	4535	AUCAGCAG GCCGAAAGCGAGUGAGGUCU CGGGCGCA	19843
9439	GCCCGGU G CUGAUGGA	4536	UCCAUCAG GCCGAAAGCGAGUGAGGUCU AGCCGGGC	19844
9454	GAAGAACC G UCAUGGAU	4537	AUCAUGA GCCGAAAGCGAGUGAGGUCU GGUCUUC	19845

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9463	UCAUGGAU G UUAUCUCC	4538	GGAGAUAA GCCGAAAGGCGAGUGAGGUU AUCCAUGA	19846
9491	GAGGGGGA G UGACAAAG	4539	CUUGUCCA GCCGAAAGGCGAGUGAGGUU UCCCCUC	19847
9499	GUGGACAA G UUGUCACC	4540	GGUGACAA GCCGAAAGGCGAGUGAGGUU UUGUCCAC	19848
9502	GACAGAUU G UCACCUAC	4541	GUAGGUGA GCCGAAAGGCGAGUGAGGUU AACUUGUC	19849
9511	UCACCUAC G CCUAAAC	4542	GUUAGGG GCCGAAAGGCGAGUGAGGUU GUAGGUGA	19850
9535	CCACACUG G CGGUCGAG	4543	CUGACGG GCCGAAAGGCGAGUGAGGUU CAGGUUGG	19851
9538	ACUUGGCC G UCCAGCUG	4544	CAGCUGGA GCCGAAAGGCGAGUGAGGUU GGCAGGU	19852
9543	GCGGUCCA G CUGGUGAG	4545	CUACACAG GCCGAAAGGCGAGUGAGGUU UGGACGGC	19853
9547	UCCAGCUG G UGAGGAUG	4546	CAUCCUCA GCCGAAAGGCGAGUGAGGUU CAGCUGGA	19854
9571	GGGAAGGA G UGAUUGGC	4547	GCCAAUCA GCCGAAAGGCGAGUGAGGUU UCCUCCC	19855
9578	AGUGAUUG G CCCAGAUU	4548	CAUCUGGG GCCGAAAGGCGAGUGAGGUU CAAUCACU	19856
9589	CAGAUAU G UGGAGMAA	4549	UUUCUCCA GCCGAAAGGCGAGUGAGGUU AUCAUCUG	19857
9622	GACCCAAA G UCAGGACC	4550	GGUCCUGA GCCGAAAGGCGAGUGAGGUU UUUGGGUC	19858
9633	AGGACCUG G CUGUUUGA	4551	UCAAACAG GCCGAAAGGCGAGUGAGGUU CAGGUCCU	19859
9636	ACUUGGUU G UUUGAGAA	4552	UUUCUCAA GCCGAAAGGCGAGUGAGGUU AGCCAGGU	19860
9662	AAGACUCA G CGCAUGG	4553	CCAUGCGG GCCGAAAGGCGAGUGAGGUU UGAGUCUU	19861
9665	ACUCAGCC G CAUGGCUU	4554	CAGCCUUG GCCGAAAGGCGAGUGAGGUU GGCUGAGU	19862
9670	GCGGCAUG G CUGUCAGU	4555	ACUGACAG GCCGAAAGGCGAGUGAGGUU CAUGCGGC	19863
9673	GCAUGGUU G UCAGUGGA	4556	UCCACUGA GCCGAAAGGCGAGUGAGGUU AGCCAUGC	19864
9677	GGCUGUCA G UGGAGAUU	4557	CAUCUCCA GCCGAAAGGCGAGUGAGGUU UGACAGCC	19865
9689	AGAUAUCU G UGGUGUAA	4558	UUACCACA GCCGAAAGGCGAGUGAGGUU AGUCAUCU	19866
9691	AUGACUGU G UGGUAAAG	4559	CUUUACCA GCCGAAAGGCGAGUGAGGUU ACAGUCAU	19867
9694	ACUGUGUG G UAAAGCCC	4560	GGGCUUUA GCCGAAAGGCGAGUGAGGUU CACACAGU	19868
9699	GUGGUAAA G CCCUUGA	4561	UCCAGGGG GCCGAAAGGCGAGUGAGGUU UUUACCCAC	19869
9713	GGACGAUC G CUUUGCCA	4562	UGGCAAG GCCGAAAGGCGAGUGAGGUU GAUGGUCC	19870
9718	AUCGCUUU G CCACCUUG	4563	CGAGGUGG GCCGAAAGGCGAGUGAGGUU AAAGCGAU	19871
9726	GCCACCUU G CUCCACTU	4564	AAGUGGAG GCCGAAAGGCGAGUGAGGUU GAGGUGGC	19872
9742	UCCUCAU G CUAUGUCA	4565	UGACAUG GCCGAAAGGCGAGUGAGGUU AUTUGAGGA	19873
9747	AATGCUAU G UCAAAGGU	4566	ACCUUGA GCCGAAAGGCGAGUGAGGUU AUAGCAUU	19874
9754	UGUCAAG G UUCGCAAA	4567	UUUGCGAA GCCGAAAGGCGAGUGAGGUU CUUUGACA	19875
9758	AAAGGUUC G CAAAGACA	4568	UGUCUUUG GCCGAAAGGCGAGUGAGGUU GAACCUUU	19876
9774	AUCCAAGA G UGGAACCC	4569	GGUUUCCA GCCGAAAGGCGAGUGAGGUU UCUUGGAU	19877
9783	UGGAACCC G UCAACUGG	4570	CCAGUUGA GCCGAAAGGCGAGUGAGGUU GGUUUCCA	19878
9795	ACUGGAUG G UAUGAUUG	4571	CAAUCAUA GCCGAAAGGCGAGUGAGGUU CAUCCAGU	19879
9804	UAUGAUUG G CAGCAGGU	4572	ACCUGCUG GCCGAAAGGCGAGUGAGGUU CAAUCAUA	19880
9807	GAUUGSCA G CAGGUUCC	4573	GGAAACCU GCCGAAAGGCGAGUGAGGUU UGCCAUUC	19881
9811	GGCAGCAG G UUCCAUUU	4574	AAAUUGAA GCCGAAAGGCGAGUGAGGUU UGCUGGCC	19882
9821	UCCAUUUU G CUCAAACC	4575	GGUUUGAG GCCGAAAGGCGAGUGAGGUU AAAAUGGA	19883
9868	GAACACUG G UGGUUGCA	4576	UGGAACCA GCCGAAAGGCGAGUGAGGUU CAGUGUUC	19884
9871	CACUGGUG G UUCCAUGC	4577	GCAUGGAA GCCGAAAGGCGAGUGAGGUU CACCAGUG	19885

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9878	GGUUCU G CCGAGGAC	4578	GUUCUGG GCCGAAAGGCGAGUGAGGUCU AUGGAACC	19886
9898	AUGAAUUG G UAGGCAGA	4579	UCUGCCUA GCCGAAAGGCGAGUGAGGUCU CAUUCAU	19887
9902	AUUGUAG G CAGAGCUC	4580	GAGUCUG GCCGAAAGGCGAGUGAGGUCU CUACCAU	19888
9907	UAGGCAGA G CUCGCAUA	4581	UAUGCGAG GCCGAAAGGCGAGUGAGGUCU UCUGCCUA	19889
9911	CAGAGCUC G CAUAUCUC	4582	GAGAUAUG GCCGAAAGGCGAGUGAGGUCU GAGCUCUG	19890
9925	CUCGAGG G CCGAUGG	4583	CCAUCGG GCCGAAAGGCGAGUGAGGUCU CCCUGGAG	19891
9937	GAUGAAC G UCCGCGAC	4584	GUCCGGA GCCGAAAGGCGAGUGAGGUCU GUUCCAUC	19892
9941	GAAGUCC G CGACACUG	4585	CAGUUCG GCCGAAAGGCGAGUGAGGUCU GBAAGUUC	19893
9949	GCACACU G CUUGUCUG	4586	CAGACAAG GCCGAAAGGCGAGUGAGGUCU AGUGCGC	19894
9953	CACUGCUU G UCUGGCUA	4587	UAGCCAGA GCCGAAAGGCGAGUGAGGUCU AAGCAGUG	19895
9958	CUUGUCUG G CUAAGUCU	4588	AGACUUG GCCGAAAGGCGAGUGAGGUCU CAGACAAG	19896
9963	CUUGCUAA G UCUAUUGC	4589	GCAUAAGA GCCGAAAGGCGAGUGAGGUCU UUAGCCAG	19897
9970	AGUCUAU G CCGAGAGG	4590	CAUCUGG GCCGAAAGGCGAGUGAGGUCU AUAAGACU	19898
9978	GCCAGAU G UGGCUGCU	4591	AGCAGCCA GCCGAAAGGCGAGUGAGGUCU AUCUGGGC	19899
9981	CAGAUGG G CUGCUUCU	4592	AGAAGCAG GCCGAAAGGCGAGUGAGGUCU CACAUCUG	19900
9984	AUGUGGU G CUUCUGUA	4593	UACAGAAG GCCGAAAGGCGAGUGAGGUCU AGCCACAU	19901
9990	CUGCUUCU G UACUUCUA	4594	UGGAAGUA GCCGAAAGGCGAGUGAGGUCU AGAAGCAG	19902
10011	AGAGACCU G CGGCUCAU	4595	AUGAGCCG GCCGAAAGGCGAGUGAGGUCU AGGUCUCU	19903
10014	GACCUCC G CUCAUGGC	4596	GCCAUGAG GCCGAAAGGCGAGUGAGGUCU CGCAGGUC	19904
10021	GGCUCUG G CCAACGCC	4597	GGCGUUG GCCGAAAGGCGAGUGAGGUCU CAUGAGCC	19905
10027	UGGCCAAC G CCAUUGC	4598	GCAAUUG GCCGAAAGGCGAGUGAGGUCU GUUGGCCA	19906
10034	CGCAUUU G CUCCGUGU	4599	CAGCGGAG GCCGAAAGGCGAGUGAGGUCU AAADGGCG	19907
10039	UUUGUCC G CUGUCCCU	4600	AGGACAG GCCGAAAGGCGAGUGAGGUCU GGAGCAAA	19908
10042	GCUCGCU G UCCUGUG	4601	CACAGGGA GCCGAAAGGCGAGUGAGGUCU AGCGAGC	19909
10048	CUGUCCU G UGAUUGG	4602	CCAUAUCA GCCGAAAGGCGAGUGAGGUCU AGGACAG	19910
10057	UGAAUUG G UCCCUACC	4603	GGUAGGGA GCCGAAAGGCGAGUGAGGUCU CCAUAUCA	19911
10077	AGAACCAC G UGUCCAU	4604	AUGGACCA GCCGAAAGGCGAGUGAGGUCU GUGUUCU	19912
10080	ACCACGUG G UCAUCCA	4605	UGGAUGA GCCGAAAGGCGAGUGAGGUCU CACGUGU	19913
10090	CAUCCAU G CAGGAGGA	4606	UCCUCCUG GCCGAAAGGCGAGUGAGGUCU AUGGAUGG	19914
10101	GGAGGAGA G UGGAUGAC	4607	GUCAUCCA GCCGAAAGGCGAGUGAGGUCU UCUCUCC	19915
10122	GAGGACAU G UUGGAGGU	4608	ACUCCAA GCCGAAAGGCGAGUGAGGUCU AUGUCCUC	19916
10129	UGUUGAG G UCUGAAC	4609	GUUCCAGA GCCGAAAGGCGAGUGAGGUCU CUCCAACA	19917
10139	CUGGAACC G UGUUGGA	4610	UCCAAACA GCCGAAAGGCGAGUGAGGUCU GGUUCCAG	19918
10141	GGAACCGU G UUUGUAUA	4611	UAUCCAA GCCGAAAGGCGAGUGAGGUCU ACGUUCU	19919
10183	AAACCCCA G UGGAGAAA	4612	UUUCUCCA GCCGAAAGGCGAGUGAGGUCU UGGGUUU	19920
10196	GAAUUGA G UGACGUCC	4613	GGACGUCA GCCGAAAGGCGAGUGAGGUCU UCCAUTUC	19921
10201	GGAGUAC G UCCCAUAU	4614	AUAUGGA GCCGAAAGGCGAGUGAGGUCU GUCAUCC	19922
10233	GACAUCUG G UGUGGACG	4615	CUGCCACA GCCGAAAGGCGAGUGAGGUCU CAGAUGUC	19923
10235	CAUCUGGU G UGGCAGCC	4616	GGCUGCCA GCCGAAAGGCGAGUGAGGUCU ACCAGAUG	19924
10238	CUGGUGUG G CAGCCUGA	4617	UCAGGUG GCCGAAAGGCGAGUGAGGUCU CACACCAG	19925

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10241	GUUGGGCA G CCUGAUG	4618	CAUACAG GCCGAAAGCGAGUGAGGUCU UGCCACAC	19926
10250	CCUGAUG G CACAAGAG	4619	CUCUUGUG GCCGAAAGCGAGUGAGGUCU CAUACAGG	19927
10258	GACAAGA G CCGAGGC	4620	GGCUCGG GCCGAAAGCGAGUGAGGUCU UCUGUGC	19928
10264	GAGCCGA G CCACGUGG	4621	CCACGUG GCCGAAAGCGAGUGAGGUCU UCGGGCUC	19929
10269	CGAGCCAC G UGGGCAGA	4622	UCUGCCCA GCCGAAAGCGAGUGAGGUCU GCGCUCG	19930
10273	CCAGUGG G CAGAAAC	4623	GUUUUCUG GCCGAAAGCGAGUGAGGUCU CCACGUGG	19931
10288	ACAUCCAG G UGGCUAUC	4624	GAUAGCCA GCCGAAAGCGAGUGAGGUCU CUGGAUGU	19932
10291	UCCAGGUG G CUAUCAAC	4625	GUUGAUAU GCCGAAAGCGAGUGAGGUCU CACCUGGA	19933
10303	UCRACCAA G UCAGAGCA	4626	UGCUCUGA GCCGAAAGCGAGUGAGGUCU UUGGUUGA	19934
10309	AAGUCAGA G CUAUCAUC	4627	GAUGAUG GCCGAAAGCGAGUGAGGUCU UCUGACUU	19935
10329	GAUGAGAA G UAUUGGA	4628	UCCACAU GCCGAAAGCGAGUGAGGUCU UUCUCAUC	19936
10333	AGAAGUAU G UGAUUAU	4629	GUAAUCCA GCCGAAAGCGAGUGAGGUCU AVACUUCU	19937
10346	UAUCAUUA G UUAUAUA	4630	UUAGUGAA GCCGAAAGCGAGUGAGGUCU UCAUGUAA	19938
10378	CAACUUG G UUGAGGAC	4631	GUUCUCA GCCGAAAGCGAGUGAGGUCU CAAAGUUG	19939
10390	AGGACACA G UACUGUAG	4632	CUACAGUA GCCGAAAGCGAGUGAGGUCU UGUGUCCU	19940
10395	ACAGUACU G UGAUAUU	4633	AAUAUCUA GCCGAAAGCGAGUGAGGUCU AGUACUGU	19941
10413	AAUCAUU G UAAUAUA	4634	UCUAUUUA GCCGAAAGCGAGUGAGGUCU AAUUGAUU	19942
10430	CAUAUAUA G UAUGCAUA	4635	UAUGCAUA GCCGAAAGCGAGUGAGGUCU UUAUAUUG	19943
10434	AUAAGUAU G CAUAAAG	4636	CUUUUAUG GCCGAAAGCGAGUGAGGUCU AUACUUAU	19944
10442	GCAUAAA G UUAUGUU	4637	AAACUACA GCCGAAAGCGAGUGAGGUCU UUUUAUGC	19945
10444	AUAAAGU G UGUUUUA	4638	UAAACUA GCCGAAAGCGAGUGAGGUCU ACUUUUUU	19946
10447	AAAGUGUA G UUUUAUAG	4639	CUUAUAAA GCCGAAAGCGAGUGAGGUCU UACACUUU	19947
10455	GUUUUAUA G UAGUAUU	4640	AAUAUCUA GCCGAAAGCGAGUGAGGUCU UUAUAAAC	19948
10458	UUAUAGUA G UAUUUAGU	4641	ACUAAUA GCCGAAAGCGAGUGAGGUCU UACUAUAA	19949
10465	AGUAUUA G UGGUGUA	4642	UAACACCA GCCGAAAGCGAGUGAGGUCU UAAUAUCU	19950
10468	AUUUAGUG G UGUUAGUG	4643	CACUAACA GCCGAAAGCGAGUGAGGUCU CACUAAAU	19951
10470	UAGUGGU G UUAUGUA	4644	UACACUA GCCGAAAGCGAGUGAGGUCU ACCACUAA	19952
10474	UGUGUUA G UUAUAUA	4645	UAUUUAUA GCCGAAAGCGAGUGAGGUCU UAAACCCA	19953
10476	GUGUAUG G UAAUAUGU	4646	ACUAUUUA GCCGAAAGCGAGUGAGGUCU ACUAACAC	19954
10483	UGUAAUA G UUAAGAA	4647	UUUCUUA GCCGAAAGCGAGUGAGGUCU UAUUUAUA	19955
10506	AGGAGAA G UCAGGCCG	4648	CGGCCUGA GCCGAAAGCGAGUGAGGUCU UUCUCCCU	19956
10511	AAAGUCAG G CCGGAAG	4649	CUUCCCGG GCCGAAAGCGAGUGAGGUCU CUGACUUU	19957
10519	GCCGGAA G UUCGCCG	4650	GGGGGAA GCCGAAAGCGAGUGAGGUCU UUCGCCGC	19958
10525	AAGUCCC G CCACCGGA	4651	UCCGGUG GCCGAAAGCGAGUGAGGUCU GGAACUU	19959
10535	CACGGAA G UAGAGUAG	4652	CUACUUA GCCGAAAGCGAGUGAGGUCU UUCGGGUG	19960
10540	GAGUUGA G UGACGCUU	4653	ACGUCUA GCCGAAAGCGAGUGAGGUCU UCAACUUC	19961
10547	AGUAGAG G UGUGGCU	4654	AGGCAGCA GCCGAAAGCGAGUGAGGUCU CGUUAUCU	19962
10549	UAGACGGU G CUGCCUGC	4655	GCAGGCAG GCCGAAAGCGAGUGAGGUCU ACCGUCUA	19963
10552	ACGGUGCU G CCUGCGAC	4656	GUUGCAG GCCGAAAGCGAGUGAGGUCU AGCACCGU	19964
10556	UGCUGCCU G CGACUCA	4657	UUGAGUCG GCCGAAAGCGAGUGAGGUCU AGGCAGCA	19965

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10580	AGGACTUGG G UGAACAAA	4658	UUUGUUUA GCCGAAAGCGAGUGAGGUCU CCAGUCCU	19966
10589	UGAACAAA G CCGGGAAG	4659	CUUCGCGG GCCGAAAGCGAGUGAGGUCU UUUGUUUA	19967
10592	ACNAAGCC G CGAAGUGA	4660	UCACUUCG GCCGAAAGCGAGUGAGGUCU GGCUUUGU	19968
10597	GCCGGA G UGAUCCAU	4661	AUGGAUCA GCCGAAAGCGAGUGAGGUCU UUCGCGC	19969
10606	UGAUCCAU G UGAGCCCU	4662	AGGGCUUA GCCGAAAGCGAGUGAGGUCU AUGGAUCA	19970
10610	CCAUGUA G CUCUCAGA	4663	UUUCAGGG GCCGAAAGCGAGUGAGGUCU UUAACAUGG	19971
10622	UCAGAAC G UUCGGAA	4664	UUCGAGA GCCGAAAGCGAGUGAGGUCU GGUUCUGA	19972
10645	CCCACAU G UUGUAACU	4665	AGUUAACA GCCGAAAGCGAGUGAGGUCU AUGUGGG	19973
10648	CACAUGU G URACUUA	4666	UGAAGUUA GCCGAAAGCGAGUGAGGUCU AACAUUGG	19974
10659	ACUUCAA G CCCAUGU	4667	ACAUUGGG GCCGAAAGCGAGUGAGGUCU UUUGAAGU	19975
10666	AGCCCAU G UCAGACCA	4668	UGGUCUGA GCCGAAAGCGAGUGAGGUCU AUTGGGU	19976
10676	CAGACCAC G CUACGGCG	4669	CGCCGUAG GCCGAAAGCGAGUGAGGUCU GUGGUCUG	19977
10682	ACGCUACG G CGUCUAC	4670	GUAGCACG GCCGAAAGCGAGUGAGGUCU CGUAGCGU	19978
10684	GUACGGC G UGUACUC	4671	GAGUAGCA GCCGAAAGCGAGUGAGGUCU GCCGUAGC	19979
10686	UACGGCGU G CUACUCUG	4672	CAGAGUAG GCCGAAAGCGAGUGAGGUCU ACGCCGUA	19980
10694	GUACUCU G CGGAGAGU	4673	ACUCUCCG GCCGAAAGCGAGUGAGGUCU AGAGUAGC	19981
10701	UGCGGAGA G UGCAGUCU	4674	AGACUUGA GCCGAAAGCGAGUGAGGUCU UCUCGCA	19982
10703	CGAGAGU G CAGUCUGC	4675	GCAGACTG GCCGAAAGCGAGUGAGGUCU ACUCUCCG	19983
10706	AGAGUGCA G UCUGCGAU	4676	AUCGAGA GCCGAAAGCGAGUGAGGUCU UGCACUCU	19984
10710	UGAGUCU G CGAUAGUG	4677	CACUAUCG GCCGAAAGCGAGUGAGGUCU AGACUGCA	19985
10716	CUGGUA G UGCCCCAG	4678	CUGGGCA GCCGAAAGCGAGUGAGGUCU UACGCGAG	19986
10718	GCAUAGU G CCGCAGGA	4679	UCCUGGGG GCCGAAAGCGAGUGAGGUCU ACTAUCCG	19987
10734	AGGACUGG G UUAACNA	4680	UUUGUUA GCCGAAAGCGAGUGAGGUCU CCAGUCCU	19988
10744	UAACAAAG G CAAACCA	4681	UUUGUUUG GCCGAAAGCGAGUGAGGUCU CUUUGUUA	19989
10754	AAACCAAC G CCCACGC	4682	CGUGGGG GCCGAAAGCGAGUGAGGUCU GUUGUUUU	19990
10761	CGCCCCAC G CGGCCCUA	4683	UAGGCGCG GCCGAAAGCGAGUGAGGUCU GUGGGCGG	19991
10764	CCACCGG G CCGUAGCC	4684	GGCUAGGG GCCGAAAGCGAGUGAGGUCU CGCGUGGG	19992
10770	CGGCCCUA G CCGCGUA	4685	UACCGGGG GCCGAAAGCGAGUGAGGUCU UAGGGCCG	19993
10776	UAGCCCCG G UUAUGGUG	4686	CACCAUUA GCCGAAAGCGAGUGAGGUCU CGGGGCUA	19994
10782	CGUUAUG G UGUUAACC	4687	GGUUAACA GCCGAAAGCGAGUGAGGUCU CAUUAACG	19995
10784	GUUAUGG G UUAACCA	4688	CUGGUUA GCCGAAAGCGAGUGAGGUCU ACCAUUAC	19996
10794	UAACCAAG G CGAAGGA	4689	UCCUUUCG GCCGAAAGCGAGUGAGGUCU CUGGUUA	19997
10809	GACUAGAG G UUAAGGA	4690	UCCUUA GCCGAAAGCGAGUGAGGUCU CUCUAGUC	19998
10824	GAGACCCG G CGGUUUA	4691	UUAACCG GCCGAAAGCGAGUGAGGUCU GGGGUCUC	19999
10827	ACCCCGG G UUAUAGU	4692	ACUUUA GCCGAAAGCGAGUGAGGUCU CGCGGGGU	20000
10834	GUUUA G UGACGCGC	4693	GCCUGCA GCCGAAAGCGAGUGAGGUCU UUUAAACC	20001
10836	UUUAAGU G CACGGCCC	4694	GGGCGUG GCCGAAAGCGAGUGAGGUCU ACUTUAAA	20002
10841	AGUCCAG G CCGAGCCU	4695	AGGCTUGG GCCGAAAGCGAGUGAGGUCU CGUGCACU	20003
10846	ACGGCCCA G CUGACUG	4696	CAGUACGG GCCGAAAGCGAGUGAGGUCU UGGGCGGU	20004
10857	UGACUGAA G CUGUAGGU	4697	ACCUACAG GCCGAAAGCGAGUGAGGUCU UUCAGUCA	20005

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10860	CUGAAGCU G UAGGUACG	4698	CUGACCUA GCCGAAAGCGAGUGAGGUCU AGCUCACG	20006
10864	AGCUGUAG G UCAGGGGA	4699	UCCCCUGA GCCGAAAGCGAGUGAGGUCU CUACAGCU	20007
10883	GACUAGAG G UUAGUGGA	4700	UCCACUAA GCCGAAAGCGAGUGAGGUCU CUUAGUC	20008
10887	AGAGGUUA G UGGAGACC	4701	GGUCUCCA GCCGAAAGCGAGUGAGGUCU UAACTCUU	20009
10898	GAGACCCC G UGCCACAA	4702	UUGUGGCA GCCGAAAGCGAGUGAGGUCU GGGGUCUC	20010
10900	GACCCCGU G CCACAAA	4703	UUUUGGG GCCGAAAGCGAGUGAGGUCU ACGGGGUC	20011
10924	ACAAACA G CAUAUTGA	4704	UCAAUUG GCCGAAAGCGAGUGAGGUCU UGUUUUGU	20012
10960	GAUCUUCU G CUCUGCAC	4705	GUGCAGAG GCCGAAAGCGAGUGAGGUCU AGAAGAUC	20013
10965	UCUGGUCU G CACAAACA	4706	UGGUUGUG GCCGAAAGCGAGUGAGGUCU AGAGCAGA	20014
10974	CACAAACA G CCACACGG	4707	CCGUGUGG GCCGAAAGCGAGUGAGGUCU UGGUUGUG	20015
10982	GCCACAG G CACAGUGC	4708	GCACUGUG GCCGAAAGCGAGUGAGGUCU CGUGUGGC	20016
10987	ACGGACA G UGCGCCGA	4709	UCGGCCGA GCCGAAAGCGAGUGAGGUCU UGUGCCGU	20017
10989	GGCAGAG G CGCGACA	4710	UGUGGCG GCCGAAAGCGAGUGAGGUCU ACUGUGCC	20018
10991	CACAGUC G CCGACAAU	4711	AUUGUCGG GCCGAAAGCGAGUGAGGUCU GCACUGUG	20019
11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GCCGAAAGCGAGUGAGGUCU CAUUGUCG	20020
11004	CAUUGUG G CUGGUGGU	4713	ACCACCAG GCCGAAAGCGAGUGAGGUCU CACCAUTG	20021
11008	GGUGGUG G UGGUGCGA	4714	UCGCACCA GCCGAAAGCGAGUGAGGUCU CAGCCACC	20022
11011	GGCUGGUG G UGCAGAA	4715	UUCUCGA GCCGAAAGCGAGUGAGGUCU CACCAGCC	20023
11013	CUGGUGGU G CGAACA	4716	UGUUCUG GCCGAAAGCGAGUGAGGUCU ACCACCAG	20024

Input Sequence = AF196835. Cut Site = G/Y

Arm Length = 8. Core Sequence = GCCGAAAGCGAGUCaagGUCu

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VI: WNV DNAzyme and Target Sequence

Pos	Substrate	Seq ID	DNAzyme Sequence	Seq ID
142	CUGUCAAU A UGCUAAAA	20	TTTGTAGCA GGCTAGCTACAACGA ATTGACAG	20025
196	AGAGGGCU A UGUUGAGC	26	GCTCAACA GGCTAGCTACAACGA AGCCCTCT	20026
228	GGGCCAAU A CGAUUUGU	29	ACAAATCG GGCTAGCTACAACGA ATTGGCCC	20027
379	CCAGUGCU A UCAAUCGG	53	CCGATTGA GGCTAGCTACAACGA AGCACTGG	20028
469	GAGCAGUU A CCCUCUCU	63	AGAGAGGG GGCTAGCTACAACGA AACTGCTC	20029
514	UAAAUGCU A CUGACGUC	70	GACGTCAG GGCTAGCTACAACGA AGCATTTA	20030
564	AAGAACCU A UGCAUUGU	76	ACAATGCA GGCTAGCTACAACGA AGGTTCTT	20031
593	UGUGGGAU A CAUGUGCG	79	CGCACATG GGCTAGCTACAACGA ATCCACA	20032
607	GCGAUGAU A CUACACU	80	AGTGATAG GGCTAGCTACAACGA ATCATCGC	20033
610	AUGAUACU A UCACUUAU	81	ATAAGTGA GGCTAGCTACAACGA AGTATCAT	20034
617	UAUCACUU A UGAAUGCC	84	GGCATTCA GGCTAGCTACAACGA AAGTGATA	20035
689	AGCAGUCU A CGUCAGGU	92	ACCTGACG GGCTAGCTACAACGA AGACTGCT	20036
698	CGUCAGGU A UGGAAGAU	94	ATCTTCCA GGCTAGCTACAACGA ACCTGACG	20037
824	CACAAGGU A UUUGGUAA	101	TTACCAAA GGCTAGCTACAACGA ACCTTGTC	20038
866	CCUGGGAU A UGCCUGG	108	CCAGGGCA GGCTAGCTACAACGA ATCCAGGG	20039
939	GUCUGUCU A UUGCUUUU	117	AAAAGCAA GGCTAGCTACAACGA AGCACGAC	20040
962	CCCAGCUU A CAGCUUCA	123	TGAAGCTG GGCTAGCTACAACGA AAGCTGGG	20041
1063	GCGUGACU A UCAUGUCU	136	AGACATGA GGCTAGCTACAACGA AGTCACGC	20042
1084	ACAAGCCU A CCAUCGAU	140	ATCGATGG GGCTAGCTACAACGA AGGCTTGT	20043
1108	UGAUGAAU A UGAGGGCG	142	CGCCTCCA GGCTAGCTACAACGA ATTCATCA	20044
1142	CCGCAGUU A UUGCUAUU	146	AATAGCAA GGCTAGCTACAACGA AACTGCGG	20045
1148	UUAUUGCU A UUUGGCUA	148	TAGCCAAA GGCTAGCTACAACGA AGCAATAA	20046
1156	AUUUGGCU A CCUCAGC	151	GCTGACGG GGCTAGCTACAACGA AGCCAAAT	20047
1287	UGCGGAUU A UUUGGCAA	161	TGCCAAA GGCTAGCTACAACGA AATCCGCA	20048
1333	CCUGCUCU A CCAAGGCA	168	TGCCTTGG GGCTAGCTACAACGA AGAGCAGG	20049
1369	AAGAGAAU A UCAAGUAC	172	GTACTTGA GGCTAGCTACAACGA ATTCTCTT	20050
1376	UAUCAAGU A CGAAGUGG	174	CCACTTCG GGCTAGCTACAACGA ACTTGATA	20051
1408	GACCAACU A CUGUGGAG	180	CTCCACAG GGCTAGCTACAACGA AGTTGGTC	20052
1430	CGGAAACU A CUCCACAC	182	GTGTGGAG GGCTAGCTACAACGA AGTTCCG	20053
1493	GCCUUCAU A CACACUAA	192	TTAGTGTG GGCTAGCTACAACGA ATGAAGGC	20054
1514	UGGAGAAU A UGAGAGGG	195	CCTCTCCA GGCTAGCTACAACGA ATTCTCCA	20055
1568	CAUUGCAU A CUACGUGA	198	TCACGTAG GGCTAGCTACAACGA ATGCATTG	20056
1571	UGCAUACU A CGUGAUGA	199	TCATCACG GGCTAGCTACAACGA AGTATGCA	20057
1657	CUGGAAGU A CUGUGUGG	211	CCACACAG GGCTAGCTACAACGA ACTTCCAG	20058
1871	AACAACCU A UGGCGUCU	239	AGACGCGA GGCTAGCTACAACGA AGGTTGTT	20059
1952	AUUGCAGU A CACUGGCA	254	TGCCAGTG GGCTAGCTACAACGA ACTGCAAT	20060
1984	AAGUUCU A UCUCGUA	258	TGACGAGA GGCTAGCTACAACGA AGGAACTT	20061
2114	AGACUCAU A CAUAGUGG	282	CCACTATG GGCTAGCTACAACGA ATGAGTCT	20062
2191	AAGCCUUU A CAACCACC	291	GGTGTTTG GGCTAGCTACAACGA AAGGCTT	20063
2532	GUGUUCAU A CACAAUGA	343	TCATTGTG GGCTAGCTACAACGA ATGAACAC	20064
2564	GGACCGGU A CAAGUAUU	345	AATACTTG GGCTAGCTACAACGA ACCGGTCC	20065
2570	GUACAAGU A UUACCCUG	346	CAGGGTAA GGCTAGCTACAACGA ACTTGTAC	20066
2573	CAAGUAUU A CCCUGAAA	348	TTTCAGGG GGCTAGCTACAACGA AATACTTG	20067
2640	UGCGGUCU A CGAUCAGU	356	ACTGATCG GGCTAGCTACAACGA AGACCGCA	20068
2759	GGGAUUGU A CAAGUCAG	370	CTGACTTG GGCTAGCTACAACGA ACATTCCC	20069
2833	GAAAGAGU A UUUUAUUU	376	AAATAAAA GGCTAGCTACAACGA ACTCTTTC	20070
2838	AGUAUUUU A UUUGCACC	380	GGTGCAAA GGCTAGCTACAACGA AAAATACT	20071
3068	CCUGUCCU A UUGGAUUG	413	CAATCCAA GGCTAGCTACAACGA AGGACAGG	20072
3094	UCAAUGAU A CGUGGAAG	417	CTTCCACG GGCTAGCTACAACGA ATCATTGA	20073
3139	AAUCAUGU A CGUGGCCU	423	AGGCCACG GGCTAGCTACAACGA ACATGATT	20074
3157	AGACGCAU A CCUUGUGG	424	CCACAAGG GGCTAGCTACAACGA ATGCTTCT	20075
3198	UGAUAAU A CCAGUCAC	430	GTGACTGG GGCTAGCTACAACGA ATTATCAA	20076
3248	ACCUGGGU A CAAGACAC	434	GTGTCTTG GGCTAGCTACAACGA ACCCAGGT	20077
3305	CUUCGAUU A CUGCCAG	440	CTGGGCAG GGCTAGCTACAACGA AATCGAAG	20078
3319	CAGGAACU A CGGUCACC	441	GGTGACCG GGCTAGCTACAACGA AGTTCTTG	20079
3423	UGCACCUU A CCACCACU	448	AGTGGTGG GGCTAGCTACAACGA AAGGTGCA	20080
3437	ACUGCGCU A CCAACUG	449	CAGTTTGG GGCTAGCTACAACGA AGCGCAGT	20081
3461	CUGUUGGU A UGGUAUGG	451	CCATACCA GGCTAGCTACAACGA ACCAACAG	20082

Table VI

3466	GGU AUGGU A UGGAGAUC	452	GATCTCCA GGCTAGCTACAACGA ACCATACC	20083
3527	GAAUGCUU A UAAUGCUG	457	CAGCATTA GGCTAGCTACAACGA AAGCATTG	20084
3538	AUGCUGAU A UGAUUGAC	459	GTC AATCA GGCTAGCTACAACGA ATCAGCAT	20085
3634	UGCCAGCU A UACUGAUU	476	AATCAGTA GGCTAGCTACAACGA AGCTGGCA	20086
3636	CCAGCUAU A CUGAUUGC	477	GCAATCAG GGCTAGCTACAACGA ATAGCTGG	20087
3673	GGGGCAUU A CUUACACU	485	AGTGTAA GGGCTAGCTACAACGA AATGCCCC	20088
3677	CAUUAUUU A CACUGAUG	487	CATCAGTG GGCTAGCTACAACGA AAGTAATG	20089
3690	GAUGUGUU A CGCUAUGU	489	ACATAGCG GGCTAGCTACAACGA AACACATC	20090
3695	GUUACGCU A UGUCAUCU	490	AGATGACA GGCTAGCTACAACGA AGCGTAAC	20091
3750	GACGUGGU A CACUUGGC	501	GCCAAGTG GGCTAGCTACAACGA ACCACGTC	20092
3780	UUCAAGAU A CAACCAGU	506	ACTGGTTG GGCTAGCTACAACGA ATCTTGAA	20093
3793	CAGUGUUU A UGGUGGCA	509	TGCCACCA GGCTAGCTACAACGA AAACACTG	20094
3878	AAUGGCUU A UCACGAUG	528	CATCGTGA GGCTAGCTACAACGA AAGCCATT	20095
3951	UGGAUGAU A CUGAGAGC	539	GCTCTCAG GGCTAGCTACAACGA ATCATCCA	20096
4046	GGAUGUGU A CAGGAUAC	551	GTATCCTG GGCTAGCTACAACGA ACACATCC	20097
4053	UACAGGAU A CUGCUGUU	552	AACAGCAG GGCTAGCTACAACGA ATCCTGTA	20098
4134	AGUCUGCU A UGCUUGGC	559	GCCAAGCA GGCTAGCTACAACGA AGCAGACT	20099
4321	CAUAGACU A UCGCGGGG	584	CCCCGCGA GGCTAGCTACAACGA AGTCATTG	20100
4372	CAACAGAU A UGUGGAUU	596	AATCCACA GGCTAGCTACAACGA ATCTGTTG	20101
4423	CAGAAAUU A CAGGCUCG	602	CGAGCCTG GGCTAGCTACAACGA AATTTCTG	20102
4509	UGGAAGAU A UGGAUGCU	611	AGCATCCA GGCTAGCTACAACGA ATCTTCCA	20103
4547	UAGUGCGU A CACCCCUU	618	AGGGGGTG GGCTAGCTACAACGA ACGCACTA	20104
4601	UCUCCAAU A CACAAAGA	630	TCTTTGTG GGCTAGCTACAACGA ATTGGAGA	20105
4649	AAAGGAGU A CAAAAGG	634	CCTTTTGT GGCTAGCTACAACGA ACTCCTTT	20106
4679	CGGCGUCU A CAGGAUCA	636	TGATCCTG GGCTAGCTACAACGA AGACGCCG	20107
4712	CGGCAGUU A UCAAGCAG	641	CTGCTTGA GGCTAGCTACAACGA AACTGCCG	20108
4765	UUUGGCAU A CAACAAA	650	TTTTGTTG GGCTAGCTACAACGA ATGCCAAA	20109
4814	GGACCAU A CUGGGGCA	653	TGCCCCAG GGCTAGCTACAACGA ATGGGTCC	20110
4847	ACUUUGUU A CGGAGGAC	659	GTCCTCCG GGCTAGCTACAACGA AACAAAGT	20111
5060	UGGGCUUU A UGGCAAUG	678	CATTGCCA GGCTAGCTACAACGA AAAGCCCA	20112
5093	CGGCUGAU A CAUAAGCG	682	CGCTTATG GGCTAGCTACAACGA ATGAGCCG	20113
5184	AUCACUGU A CUGGAUCU	689	AGATCCAG GGCTAGCTACAACGA ACAGTGAT	20114
5339	CAUCCGGU A CCAGACAU	702	ATGTCTGG GGCTAGCTACAACGA ACCGGATG	20115
5404	GUCAUGCU A CCCUCACC	709	GGTGAGGG GGCTAGCTACAACGA AGCATGAC	20116
5447	GCCGAACU A CAACCGU	714	ACAGGTTG GGCTAGCTACAACGA AGTTCGGC	20117
5510	AAGAGGUU A CAUUUCCA	724	TGGAATAT GGCTAGCTACAACGA AACCTCTT	20118
5550	GCGGCAAU A UUCAUGAC	730	GTCATGAA GGCTAGCTACAACGA ATTGCCGC	20119
5619	UCCGACUU A CAGACUGA	745	TCAGTCTG GGCTAGCTACAACGA AAGTCGGA	20120
5657	CUCUGGAU A CGAAUGGA	750	TCCATTCT GGCTAGCTACAACGA ATCCAGAG	20121
5675	CACAGAAU A CACCGGGA	752	TCCCGGTG GGCTAGCTACAACGA ATTCTGTG	20122
5739	CUUUGCCU A CAACGUGC	762	GCACGTTG GGCTAGCTACAACGA AGGCAAAG	20123
5783	AAAGUCGU A CGAGACGG	767	CCGTCTCG GGCTAGCTACAACGA ACGACTTT	20124
5795	GACGAGU A CCCAAAU	768	ATTTTGGG GGCTAGCTACAACGA ACTCCGTC	20125
5830	ACUUUGUU A UCACAACA	774	TGTTGTGA GGCTAGCTACAACGA AACAAAGT	20126
5844	ACAGACAU A UCUGAAAU	776	ATTTTCTG GGCTAGCTACAACGA ATGTCTGT	20127
5995	GUGGACGU A UCGGUAGA	787	TCTACCGA GGCTAGCTACAACGA ACGTCCAC	20128
6029	UGAUGAGU A CUGUUAUG	793	CATAACAG GGCTAGCTACAACGA ACTCATCA	20129
6035	GUACUGUU A UGGGGGGC	795	GCCCCCA GGCTAGCTACAACGA AACAGTAC	20130
6140	UCAAUUCU A CCAACCAG	806	CTGGTTGG GGCTAGCTACAACGA AGAATTGA	20131
6162	GAGAAGGU A UAUACCAU	807	ATGGTATA GGCTAGCTACAACGA ACCTTCTC	20132
6164	GAAGGUU A UACCAUGG	808	CCATGGTA GGCTAGCTACAACGA ATACCTTC	20133
6166	AGGUUAU A CCAUGGAU	809	ATCCATGG GGCTAGCTACAACGA ATATACCT	20134
6182	UGGGAAU A CCGGCUCA	810	TGAGCCGG GGCTAGCTACAACGA ATTCCCCA	20135
6257	GCUGGCUU A CAAGGUUG	820	CAACCTTG GGCTAGCTACAACGA AAGCCAGC	20136
6284	AGUGUCAU A CCACGACC	823	GGTCTGGG GGCTAGCTACAACGA ATGACACT	20137
6416	CAGGGUGU A CUCGGAUC	838	GATCCGAG GGCTAGCTACAACGA ACACCCTG	20138
6551	CACCAUGU A CGUUGUGG	858	CCACAACG GGCTAGCTACAACGA ACATGGTG	20139
6645	AUUGCCUU A UUGAGUGU	868	ACACTCAA GGCTAGCTACAACGA AAGGCAAT	20140
6669	AUGGGAGU A UUCUCCU	870	AGGAAGAA GGCTAGCTACAACGA ACTCCCAT	20141
7049	GUCACUGU A CGCUGUGA	934	TCACAGCG GGCTAGCTACAACGA ACAGTGAC	20142
7106	GUCAGAUU A CAUCAACA	944	TGTTGATG GGCTAGCTACAACGA AATCTGAC	20143
7152	AGUGCACU A UUCACACU	952	AGTGTGAA GGCTAGCTACAACGA AGTGCACT	20144

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7246	UCACCGUU A CGGUAACA	969	TGTTACCG GGCTAGCTACAACGA AACGGTGA	20145
7280	UUGCCACU A UGCCUACA	977	TGTAGGCA GGCTAGCTACAACGA AGTGGCAA	20146
7286	CUAUGCCU A CAUGGUUC	978	GAACCATG GGCTAGCTACAACGA AGGCATAG	20147
7500	AAGACAGU A CGAGAAGC	1000	GCTTCTCG GGCTAGCTACAACGA ACTGTCTT	20148
7629	UCAUGUCU A UCCAUAAC	1017	GTTATGGA GGCTAGCTACAACGA AGACATGA	20149
7760	CACUAGGU A CCGCAAAG	1030	CTTTGCGG GGCTAGCTACAACGA ACCTAGTG	20150
7946	UUGGUGUU A CUUAUUGG	1051	CCATATAG GGCTAGCTACAACGA AACACCAA	20151
7949	GUGUUACU A UAUGGCAA	1052	TTGCCATA GGCTAGCTACAACGA AGTAACAC	20152
7951	GUUACUUA A UGGCAACC	1053	GGTTGCCA GGCTAGCTACAACGA ATAGTAAC	20153
7988	CAGAGGGU A CACAAAGG	1056	CCTTTGTG GGCTAGCTACAACGA ACCCTCTG	20154
8036	GCAAAGUU A UGGAUGGA	1060	TCCATCCA GGCTAGCTACAACGA AACTTTGC	20155
8081	UGUGUUCU A CAGACCUU	1065	AAGGTCTG GGCTAGCTACAACGA AGAACACA	20156
8240	CUGCCCCU A CAUGCCGA	1087	TCGGCATG GGCTAGCTACAACGA AGGGGCAG	20157
8285	ACGCCGGU A UGGGGGGG	1091	CCCCCCCC GGCTAGCTACAACGA ACCGGCGT	20158
8339	CAGAUUGU A UUGGGUGA	1097	TCACCCAA GGCTAGCTACAACGA ACATCTCG	20159
8370	AAUGUGGU A CAUUCAGU	1102	CTGAATG GGCTAGCTACAACGA ACCACATT	20160
8383	CAGUGAAU A UGACCAGC	1105	GCTGGTCA GGCTAGCTACAACGA ATTCACTG	20161
8441	ACCCCAAU A CGAGGAAG	1108	CTTCTCTG GGCTAGCTACAACGA ATTGGGGT	20162
8549	GCGUGAGU A CAGUUCGA	1117	TCGAACTG GGCTAGCTACAACGA ACTCACGC	20163
8585	CCACCCAU A UAGAACCU	1120	AGGTTCTA GGCTAGCTACAACGA ATGGGTGG	20164
8600	CUGGAACU A UCACGGCA	1122	TGCCGTGA GGCTAGCTACAACGA AGTTCAG	20165
8612	CGGCAGUU A UGAUGUGA	1125	TCACATCA GGCTAGCTACAACGA AACTGCCG	20166
8701	CGAAUGUU A CCACCAUG	1136	CATGGTGG GGCTAGCTACAACGA AACATTCTG	20167
8725	CUGACACU A CUCCCUUC	1137	GAAGGGAG GGCTAGCTACAACGA AGTGTGAG	20168
8801	AGUGAAGU A CGUGCUCU	1144	TGAGCACG GGCTAGCTACAACGA ACTTCACT	20169
9041	UUGCAUUU A CAACAUGA	1173	TCATGTTG GGCTAGCTACAACGA AAATGCAA	20170
9236	ACUGGGUU A CAUCCUGC	1199	GCAGGATG GGCTAGCTACAACGA AACCCAGT	20171
9278	CAAGAUCU A UGUGAUG	1203	CATCAGCA GGCTAGCTACAACGA AGATCTTG	20172
9404	GCUCACCU A UCGUCACA	1215	TGTGACGA GGCTAGCTACAACGA AGGTGAGC	20173
9466	UGGAUGUU A UCUCGAGA	1221	TCTGGAGA GGCTAGCTACAACGA AACATCCA	20174
9509	UGUCACCU A CGCCCUAA	1227	TTGGGCGG GGCTAGCTACAACGA AGGTGACA	20175
9745	UCAAUUCU A UGUCAAAG	1249	CTTTGACA GGCTAGCTACAACGA AGCATTTGA	20176
9797	UGGAUGGU A UGAUUGGC	1255	GCCAATCA GGCTAGCTACAACGA ACCATCCA	20177
9915	GCUCGCAU A UCUCGAGG	1273	CCTGGAGA GGCTAGCTACAACGA ATGCGAGC	20178
9968	UAAGUCUU A UGCCGAGA	1282	TCTGGGCA GGCTAGCTACAACGA AAGACTTA	20179
9992	GCUCUGU A CUUCCACA	1285	TGTGGAAG GGCTAGCTACAACGA ACAGAAGC	20180
10063	GGGUCCCU A CCGGAAGA	1295	TCTTCCGG GGCTAGCTACAACGA AGGGACCC	20181
10208	CGUCCCAU A UUCAGGAA	1304	TTCTTGAA GGCTAGCTACAACGA ATGGGACG	20182
10294	AGUGGGCU A UCAACCAA	1310	TGGTTTGA GGCTAGCTACAACGA AGCCACCT	20183
10331	UGAGAAGU A UGUGGAUU	1315	AATCCACA GGCTAGCTACAACGA ACTTCTCA	20184
10340	UGUGGAUU A CAUGAGUU	1317	AACTCATG GGCTAGCTACAACGA AATCCACA	20185
10361	AAAGAGAU A UGAAGACA	1321	TGTCTTCA GGCTAGCTACAACGA ATCTCTTT	20186
10392	GACACAGU A CUGUAGAU	1325	ATCTACAG GGCTAGCTACAACGA ACTGTGTC	20187
10401	CUGUAGAU A UUUAAUCA	1327	TGATTAAA GGCTAGCTACAACGA ATCTACAG	20188
10426	UAGACAAU A UAAGUAUG	1335	CATACTTA GGCTAGCTACAACGA ATTGTCTA	20189
10432	AUAUAAGU A UGCAUAAA	1337	TTTATGCA GGCTAGCTACAACGA ACTTATAT	20190
10452	GUAGUUUU A UAGUAGUA	1343	TACTACTA GGCTAGCTACAACGA AAAACTAC	20191
10460	AUAGUAGU A UUUAGUGG	1346	CCACTAAA GGCTAGCTACAACGA ACTACTAT	20192
10679	ACCACGCU A CGGCGUGC	1375	GCACGCCG GGCTAGCTACAACGA AGCGTGGT	20193
10689	GGCGUGCU A CUCUGCGG	1376	CCGCAGAG GGCTAGCTACAACGA AGCACGCC	20194
10928	AACAGCAU A UUGACACC	1397	GGTGTCAA GGCTAGCTACAACGA ATGCTGTT	20195
63	CAAUUAAC A CAGUGCGA	1412	TCGCACTG GGCTAGCTACAACGA GTTAATTG	20196
85	UUCUUAGC A CGAAGAU	1416	GATCTTCTG GGCTAGCTACAACGA GCTAAGAA	20197
265	UCAGGUUC A CAGCAAUU	1445	AATTGCTG GGCTAGCTACAACGA GAACCTGA	20198
335	GAUGAAAC A CCUUCUGA	1457	TCAGAAAG GGCTAGCTACAACGA GTTTCATC	20199
436	UUGCAGUC A UGAUUGGC	1473	GCCAATCA GGCTAGCTACAACGA GACTGCAA	20200
523	CUGACGUC A CAGAUUGC	1489	GACATCTG GGCTAGCTACAACGA GACGTCAG	20201
532	CAGAUGUC A UCACGAUU	1491	AATCGTGA GGCTAGCTACAACGA GACATCTG	20202
535	AUGUCAUC A CGAUUCCA	1492	TGGAATCG GGCTAGCTACAACGA GATGACAT	20203
568	ACCUAUGC A UUGUCAGA	1500	TCTGACAA GGCTAGCTACAACGA GCATAGGT	20204
595	UGGGAUAC A UGUGCGAU	1503	ATCGCACA GGCTAGCTACAACGA GTATCCCA	20205
613	AUACUAUC A CUUAUGAA	1505	TTCATAAG GGCTAGCTACAACGA GATAGTAT	20206

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658	CAGAAGAC A UCGACUGU	1514	ACAGTGA G GCTAGCTACAACGA GTCTTCTG	20207
673	GUUGGUGC A CAAAGUCA	1516	TGACTTTG G GCTAGCTACAACGA GCACCAAC	20208
709	GAAGAUGC A CCAAGACA	1522	TGTCTTGG G GCTAGCTACAACGA GCATCTTC	20209
717	ACCAAGAC A CGCCACUC	1525	GAGTGGCG G GCTAGCTACAACGA GTCTTGGT	20210
722	GACACGCC A CUCAAGAC	1527	GTCTTGAG G GCTAGCTACAACGA GCGGTGTC	20211
744	CGGAGGUC A CUGACAGU	1531	ACTGTGAG G GCTAGCTACAACGA GACCTCCG	20212
759	GUGCAGAC A CACGGAGA	1535	TCTCCGTG G GCTAGCTACAACGA GTCTGCAC	20213
761	GCAGACAC A CGGAGAAA	1536	TTTCTCCG G GCTAGCTACAACGA GTGTCTGC	20214
772	GAGAAAGC A CUCUAGCG	1537	CGCTAGAG G GCTAGCTACAACGA GCTTTCTC	20215
808	UGGACAGC A CCAAGGCC	1543	GGCCTTGG G GCTAGCTACAACGA GCTGTCCA	20216
817	CCAAGGCC A CAAGGUAU	1547	ATACCTTG G GCTAGCTACAACGA GGCCTTGG	20217
843	ACAGAAUC A UGGAUCUU	1550	AAGATCCA G GCTAGCTACAACGA GATTCTGT	20218
886	CAGCCGUC A UUGGUUGG	1560	CCAACCAA G GCTAGCTACAACGA GACGGCTG	20219
910	GGAGCAAC A CCAUGCAG	1563	CTGCAATG G GCTAGCTACAACGA GTTGCTCC	20220
913	GCAACACC A UGCAGAGA	1565	TCTCTGCA G GCTAGCTACAACGA GGTGTTGC	20221
1023	GGAGCAAC A UGGGUGGA	1586	TCCACCCA G GCTAGCTACAACGA GTTGCTCC	20222
1066	GAGCUAUC A UGUCUAG	1591	CTTAGACA G GCTAGCTACAACGA GATAGTCA	20223
1087	AGCCUACC A UCGAUGUG	1597	CACATCGA G GCTAGCTACAACGA GGTAGGCT	20224
1174	AUCUCUCC A CCAAAGCU	1611	AGCTTTGG G GCTAGCTACAACGA GGAGAGAT	20225
1195	GCCCGACC A UGGGAGAA	1618	TTCTCCCA G GCTAGCTACAACGA GGTGGGGC	20226
1208	AGAAGCUC A CAAUGACA	1620	TGTCATTG G GCTAGCTACAACGA GAGCTTCT	20227
1303	AAGGAAGC A UUGACACA	1635	TGTGTCAA G GCTAGCTACAACGA GCTTCCTT	20228
1309	GCAUUGAC A CAUGCGCC	1636	GGCGCATG G GCTAGCTACAACGA GTCAATGC	20229
1311	AUUGACAC A UGCGCCAA	1637	TTGGCGCA G GCTAGCTACAACGA GTGTCAAT	20230
1354	GAAGAACC A UCUUGAAA	1648	TTTCAAGA G GCTAGCTACAACGA GTTCTTCT	20231
1387	AAGUGGCC A UUUUUGUC	1652	GACAAAAA G GCTAGCTACAACGA GGCCACTT	20232
1397	UUUUGUCC A UGGACCAA	1654	TTGGTCCA G GCTAGCTACAACGA GGACAAAA	20233
1421	GGAGUCGC A CGGAAACU	1659	AGTTTCCG G GCTAGCTACAACGA GCGACTCC	20234
1435	ACUACUCC A CACAGGUU	1663	AACCTGTG G GCTAGCTACAACGA GGAGTAGT	20235
1437	UACUCCAC A CAGGUUGG	1664	CCAACCTG G GCTAGCTACAACGA GTGGAGTA	20236
1450	UUGGAGCC A CUCAGGCA	1667	TGCCTGAG G GCTAGCTACAACGA GGCTCCAA	20237
1471	GAUUCAGC A UCACUCCU	1672	AGGAGTGA G GCTAGCTACAACGA GCTGAATC	20238
1474	UCAGCAUC A CUCCUGCG	1673	CGCAGGAG G GCTAGCTACAACGA GATGCTGA	20239
1491	GCGCCUUC A UACACACU	1679	AGTGTGTA G GCTAGCTACAACGA GAAGGCGC	20240
1495	CUUCAUAC A CACUAAAG	1680	CTTTAGTG G GCTAGCTACAACGA GTATGAAG	20241
1497	UCAUACAC A CUAAAGCU	1681	AGCTTTAG G GCTAGCTACAACGA GTGTATGA	20242
1542	UGUGAACC A CGGUCAGG	1687	CCTGACCG G GCTAGCTACAACGA GGTTCACA	20243
1558	GAUUGAC A CCAAUGCA	1689	TGCATTGG G GCTAGCTACAACGA GTCAATCC	20244
1566	ACCAAUGC A UACUACGU	1692	ACGTAGTA G GCTAGCTACAACGA GCATTGGT	20245
1607	CUUGGUCC A UCGUGAGU	1698	ACTCAGCA G GCTAGCTACAACGA GGACCAAG	20246
1621	AGUGGUUC A UGGACCUC	1699	GAGGTCCA G GCTAGCTACAACGA GAACCACT	20247
1701	GAGGAACC A CACGCCAC	1713	GTGGCGTG G GCTAGCTACAACGA GGTTCCTC	20248
1703	GGAACCAC A CGCCACGA	1714	TCGTGGCG G GCTAGCTACAACGA GTGGTTCC	20249
1708	CACACGCC A CGAAGCAG	1716	CTGCTTCG G GCTAGCTACAACGA GCGGTGTG	20250
1728	GUGAUAGC A UUGGGCUC	1719	GAGCCCAA G GCTAGCTACAACGA GTATCAC	20251
1737	UUGGGCUC A CAAGAGGG	1721	CCCTCTTG G GCTAGCTACAACGA GAGCCCAA	20252
1754	AGCUCUGC A UCAAGCUU	1725	AAGCTTGA G GCTAGCTACAACGA GCAGAGCT	20253
1774	CUGGAGCC A UUCUGUG	1730	CACAGGAA G GCTAGCTACAACGA GGCTCCAG	20254
1798	CAAGCAAC A CUGUCAAG	1735	CTTGACAG G GCTAGCTACAACGA GTTGCTTG	20255
1820	GUCGGGUC A UUUGAAGU	1738	ACTTCAA G GCTAGCTACAACGA GACCCGAC	20256
1918	CCGAGAC A CAGGUCAC	1752	GTGACCTG G GCTAGCTACAACGA GTCTGCGG	20257
1925	CACAGGUC A CGGCACUG	1754	CAGTGCCG G GCTAGCTACAACGA GACCTGTG	20258
1930	GUCACGGC A CUGUGGUG	1755	CACCACAG G GCTAGCTACAACGA GCCGTGAC	20259
1954	UGCAGUAC A CUGGCACG	1758	CGTGCCAG G GCTAGCTACAACGA GTACTGCA	20260
1960	ACACUGGC A CGGAUGGA	1760	TCCATCCG G GCTAGCTACAACGA GCCAGTGT	20261
2001	GUGGCUUC A UUGAACGA	1769	TCGTTCAA G GCTAGCTACAACGA GAAGCCAC	20262
2035	GAUUGGUC A CUGUCAAC	1775	GTTGACAG G GCTAGCTACAACGA GACCAATC	20263
2062	CAGUGGCC A CGGCCAAC	1783	GTTGGCCG G GCTAGCTACAACGA GGCCACTG	20264
2097	UUGGAACC A CCCUUGG	1790	CCAAAGGG G GCTAGCTACAACGA GGTTCCAA	20265
2112	GGAGACUC A UACAUAGU	1795	ACTATGTA G GCTAGCTACAACGA GAGTCTCC	20266
2116	ACUCAUAC A UAGUGGUG	1796	CACCACTA G GCTAGCTACAACGA GTATGAGT	20267
2150	GAUCAAUC A CCAUUGGC	1801	GCCAAATG G GCTAGCTACAACGA GATTGATC	20268

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2153	CAAUCACC A UUGGCACA	1803	TGTGCCAA GGCTAGCTACAACGA GGTGATTG	20269
2159	CCAUUGGC A CAAGUCUG	1804	CAGACTTG GGCTAGCTACAACGA GCCAATGG	20270
2176	GAAGCAGC A UUGGCAAA	1808	TTTGCCAA GGCTAGCTACAACGA GCTGCTTC	20271
2197	UUACAACC A CCCUCAA	1814	TTTGAGGG GGCTAGCTACAACGA GGTGTGTA	20272
2236	UAGGAGAC A CAGCUUGG	1824	CCAAGCTG GGCTAGCTACAACGA GTCTCCTA	20273
2272	GGGUGUUC A CCUCAGUU	1829	AACTGAGG GGCTAGCTACAACGA GAACACCC	20274
2294	GGCUGUCC A UCAAGUGU	1835	ACACTTGA GGCTAGCTACAACGA GGACAGCC	20275
2313	GGAGGAGC A UUCCGCUC	1837	GAGCGGAA GGCTAGCTACAACGA GCTCCTCC	20276
2322	UUCCGCUC A CUGUUCGG	1840	CCGAACAG GGCTAGCTACAACGA GAGCGGAA	20277
2335	UCGGAGGC A UGUCCUGG	1842	CCAGGACA GGCTAGCTACAACGA GCCTCCGA	20278
2386	GGAUGGGC A UCAAUGCU	1851	AGCATTGA GGCTAGCTACAACGA GCCCATCC	20279
2407	AUAGGUCC A UAGCUCUC	1855	GAGAGCTA GGCTAGCTACAACGA GGACCTAT	20280
2416	UAGCUCUC A CGUUCUC	1858	GAGAAACG GGCTAGCTACAACGA GAGAGCTA	20281
2465	GAACGUGC A CGCUGACA	1868	TGTGAGCG GGCTAGCTACAACGA GCACGTTT	20282
2473	ACGUGUAC A CUGGGUGU	1870	ACACCCAG GGCTAGCTACAACGA GTCAGCGT	20283
2485	GGUGUGCC A UAGACAUC	1873	GATGTCTA GGCTAGCTACAACGA GGCACACC	20284
2491	CCAUAGAC A UCAGCCGG	1874	CCGGCTGA GGCTAGCTACAACGA GTCTATGG	20285
2530	GAGUGUUC A UACACAAU	1879	ATTGTGTA GGCTAGCTACAACGA GAACACTC	20286
2534	GUUCAUAC A CAAUGAUG	1880	CATCATTG GGCTAGCTACAACGA GTATGAAC	20287
2586	GAAAGGCC A CAAGCCU	1889	AGGCTTTG GGCTAGCTACAACGA GGCCTTTC	20288
2605	CCAAGAAC A UUCAGAAA	1895	TTTCTGAA GGCTAGCTACAACGA GATCTTGG	20289
2618	GAAAGCUC A UAAGGAAG	1898	CTTCCTTA GGCTAGCTACAACGA GAGCTTTC	20290
2663	ACUGGAGC A UCAAAUGU	1904	ACATTTGA GGCTAGCTACAACGA GCTCCAGT	20291
2698	AGUGGAAC A CUCUUUUG	1908	CAAAAGAG GGCTAGCTACAACGA GTTCAGCT	20292
2769	AAGUCAGC A CCUAAACG	1916	CGTTTAGG GGCTAGCTACAACGA GCTGACTT	20293
2782	AACGCCUC A CCGCCACC	1921	GGTGGCGG GGCTAGCTACAACGA GAGGCGTT	20294
2788	UCACCGCC A CCACGGAA	1924	TTCCGTGG GGCTAGCTACAACGA GGCCTGTA	20295
2791	CCGCCACC A CGGAAAAA	1926	TTTTTCCG GGCTAGCTACAACGA GGTGGCGG	20296
2844	UUAUUUGC A CCAGAACU	1930	AGTTCTGG GGCTAGCTACAACGA GCAAATAA	20297
2863	CCAACAAC A CCUUUGUG	1937	CACAAAGG GGCTAGCTACAACGA GTTGTGTT	20298
2956	UUGGUCUC A CCAGCACU	1949	AGTCTGGG GGCTAGCTACAACGA GAGACCAA	20299
2962	UCACCAGC A CUCGGAUG	1952	CATCCGAG GGCTAGCTACAACGA GCTGGTGA	20300
2995	AGAGCAAC A CAACUGAA	1958	TTGAGTTG GGCTAGCTACAACGA GTTGCTCT	20301
3019	CGAAGAUC A UUGGAACG	1962	CGTTCCAA GGCTAGCTACAACGA GATCTTCG	20302
3053	GGCGAUCC A CAGUGACC	1968	GGTCACTG GGCTAGCTACAACGA GGATCGCC	20303
3135	GUCAAAUC A UGUACGUG	1981	CACGTACA GGCTAGCTACAACGA GATTGAC	20304
3155	UGAGACGC A UACCUUGU	1984	ACAAGGTA GGCTAGCTACAACGA GCGTCTCA	20305
3205	UACCAGUC A CACUGGCG	1992	CGCCAGTG GGCTAGCTACAACGA GACTGGTA	20306
3207	CCAGUCAC A CUGGCGGG	1993	CCGCGCAG GGCTAGCTACAACGA GTGACTGG	20307
3219	GCGGGACC A CGAAGCAA	1996	TTGCTTCG GGCTAGCTACAACGA GGTCCCGC	20308
3230	AAGCAAUC A CAAUCGGA	1998	TCCGATTG GGCTAGCTACAACGA GATTGCTT	20309
3255	UACAAGAC A CAAAACCA	2003	TGGTTTTG GGCTAGCTACAACGA GTCTTGTA	20310
3270	CAGGGCCC A UGGACGGA	2009	TCGTCCCA GGCTAGCTACAACGA GGGCCCTG	20311
3325	CUACGGUC A CCCUGAGU	2017	ACTCAGGG GGCTAGCTACAACGA GACCGTAG	20312
3347	CUGCGGAC A CCGUGGAC	2022	GTCCACGG GGCTAGCTACAACGA GTCCCGAG	20313
3361	GACCUGCC A CUCGCACC	2027	GGTGCGAG GGCTAGCTACAACGA GGCAGGTC	20314
3367	CCACUCGC A CCACCACA	2029	TGTGGTGG GGCTAGCTACAACGA GCGAGTGG	20315
3370	CUCGCACC A CCACAGAG	2031	CTCTGTGG GGCTAGCTACAACGA GGTGCGAG	20316
3373	GCACCACC A CAGAGAGC	2033	GCTCTCTG GGCTAGCTACAACGA GGTGGTGC	20317
3418	GGAGCUGC A CCUUACCA	2039	TGGTAAGG GGCTAGCTACAACGA GCAGCTCC	20318
3426	ACCUUACC A CCACUGCG	2043	CGCAGTGG GGCTAGCTACAACGA GGTAAAGT	20319
3429	UUACCACC A CUGCGCUA	2045	TAGCGCAG GGCTAGCTACAACGA GGTGGTAA	20320
3480	AUCAGACC A CAGAGACA	2055	TGTCTCTG GGCTAGCTACAACGA GGTCTGAT	20321
3488	ACAGAGAC A UGAUGAAA	2057	TTTCATCA GGCTAGCTACAACGA GTCTCTGT	20322
3513	GUGCAGUC A CAAGUGAA	2062	TTCACTTG GGCTAGCTACAACGA GACTGCAC	20323
3583	UCUUGGCC A CCCAGGAG	2075	CTCCTGGG GGCTAGCTACAACGA GGCCAAGA	20324
3625	AGAUCAGC A UGCCAGCU	2086	AGCTGGCA GGCTAGCTACAACGA GCTGATCT	20325
3670	UUGGGGGC A UUACUUAC	2096	GTAAGTAA GGCTAGCTACAACGA GCCCCCAA	20326
3679	UUACUUAC A CUGAUGUG	2098	CACATCAG GGCTAGCTACAACGA GTAAGTAA	20327
3700	GCUAUGUC A UCUUGGUG	2101	CACCAAGA GGCTAGCTACAACGA GACATAGC	20328
3752	CGUGGUAC A CUUGGCGC	2107	GCGCCAAG GGCTAGCTACAACGA GTACCACG	20329
3763	UGGCGCUC A UGGCGACC	2110	GGTCGCCA GGCTAGCTACAACGA GAGCGCCA	20330

3801	AUGGUGGC A UGUUUUCU	2117	AGAAACGA GGCTAGCTACAACGA GCCACCAT	20331
3838	AGGAGAAC A UUUUGUUG	2124	CAACAAAA GGCTAGCTACAACGA GTTCTCCT	20332
3881	GGCUUAUC A CGAUGCCC	2129	GGGCATCG GGCTAGCTACAACGA GATAAGCC	20333
3930	UUGAAUUC A CUGGCGGU	2140	ACCGCCAG GGCTAGCTACAACGA GAATTCAG	20334
3961	UGAGAGCC A UAACAUUC	2145	GAATGTTA GGCTAGCTACAACGA GGCTCTCA	20335
3966	GCCAUUAC A UUCACAAC	2146	GTGTGTA GGCTAGCTACAACGA GTTATGGC	20336
3970	UAACAUUC A CAACGACA	2147	TGTCGTTG GGCTAGCTACAACGA GAATGTTA	20337
3978	ACAACGAC A UCAAACGU	2149	ACGTTTGA GGCTAGCTACAACGA GTCGTTGT	20338
4014	CUGCUAAC A CCGGGGCU	2158	AGCCCCGG GGCTAGCTACAACGA GTTAGCAG	20339
4171	UCAACCCC A UGAUCCUU	2188	AAGGATCA GGCTAGCTACAACGA GGGGTTGA	20340
4197	CUGAUUGC A UGUGAUCC	2194	GGATCACA GGCTAGCTACAACGA GCAATCAG	20341
4267	UGUUUGCC A UCGUCGGA	2208	TCCGACGA GGCTAGCTACAACGA GGCAAACA	20342
4294	AGCUUGAC A UUGAUCC	2212	GGAGTCAA GGCTAGCTACAACGA GTCAGCT	20343
4303	UUGAUCC A UGGCAUUC	2215	AATGGCCA GGCTAGCTACAACGA GGAGTCAA	20344
4309	CAUGGGC A UUCCAUG	2217	CATTGGAA GGCTAGCTACAACGA GGCCATGG	20345
4333	CGGGGCUC A UGUUUGCU	2222	AGCAAACA GGCTAGCTACAACGA GAGCCCCG	20346
4396	CGGCGGAC A UUUCUGG	2228	CCAGGAAA GGCTAGCTACAACGA GTCGCGCG	20347
4480	UCCAGCUC A UGAAUGAU	2239	ATCATTCA GGCTAGCTACAACGA GAGCTGGA	20348
4497	CCAGGAGC A CCUUGGAA	2242	TTCCAAGG GGCTAGCTACAACGA GCTCCTGG	20349
4549	GUGCGUAC A CCCCCUGG	2249	CCAGGGGG GGCTAGCTACAACGA GTACGCAC	20350
4603	UCCAAUAC A CAAAGAGA	2265	TCTCTTTG GGCTAGCTACAACGA GTATTGGA	20351
4630	UGUGGGAC A CUCCUCA	2267	TGAGGGAG GGCTAGCTACAACGA GTCCACA	20352
4638	ACUCCUC A CCAAAGGA	2272	TCCTTTGG GGCTAGCTACAACGA GAGGGAGT	20353
4663	AGGGGGAC A CGACCACC	2276	GGTGGTCG GGCTAGCTACAACGA GTCCCCCT	20354
4669	ACACGACC A CCGGCGUC	2278	GACGCCGG GGCTAGCTACAACGA GGTCTGT	20355
4687	ACAGGAUC A UGACUCGU	2282	ACGAGTCA GGCTAGCTACAACGA GATCCTGT	20356
4751	UGUUUCC A CACCCUUU	2290	AAAGGGTG GGCTAGCTACAACGA GGAAAACA	20357
4753	UUUCCAC A CCCUUUGG	2291	CCAAAGGG GGCTAGCTACAACGA GTGGAAAA	20358
4763	CCUUUGGC A UACAACAA	2295	TTGTTGTA GGCTAGCTACAACGA GCCAAGG	20359
4812	CUGGACC A UACUGGGG	2305	CCCCAGTA GGCTAGCTACAACGA GGGTCCAG	20360
4871	AUUGCAGC A CAAGUGGA	2314	TCCACTTG GGCTAGCTACAACGA GCTGCAAT	20361
4965	UUCAAAAC A CCUGAAGG	2326	CCTTCAGG GGCTAGCTACAACGA GTTTTGAA	20362
5005	ACUUCCCC A CUGGAACA	2335	TGTTCCAG GGCTAGCTACAACGA GGGGAAGT	20363
5013	ACUGGAAC A UCAGGCUC	2337	GAGCCTGA GGCTAGCTACAACGA GTTCCAGT	20364
5022	UCAGGCUC A CCAAUAGU	2340	ACTATTGG GGCTAGCTACAACGA GAGCCTGA	20365
5074	AUGGAGUC A UAAUGCCC	2346	GGGCATTA GGCTAGCTACAACGA GACTCCAT	20366
5091	AACGGCUC A UACAUAAG	2351	CTTATGTA GGCTAGCTACAACGA GAGCCGTT	20367
5095	GCUCAUAC A UAAGCGCG	2352	CGCGCTTA GGCTAGCTACAACGA GTATGAGC	20368
5179	AACAGAUC A CUGUACUG	2364	CAGTACAG GGCTAGCTACAACGA GATCTGTT	20369
5195	GGAUCUCC A UCCCGGCG	2369	CGCCGGGA GGCTAGCTACAACGA GGAGATCC	20370
5229	AUUCUGCC A CAGAUCAU	2376	ATGATCTG GGCTAGCTACAACGA GGCAGAAT	20371
5236	CACAGAUC A UCAAAGAG	2378	CTCTTTGA GGCTAGCTACAACGA GATCTGTG	20372
5248	AAGAGGCC A UAAACAGA	2381	TCTGTTTA GGCTAGCTACAACGA GGCCTCTT	20373
5280	GUGCUAGC A CCAACCAG	2387	CTGGTTGG GGCTAGCTACAACGA GCTAGCAC	20374
5316	GCUGAAGC A CUGAGAGG	2395	CCTCTCAG GGCTAGCTACAACGA GCTTCAGC	20375
5332	GACUGCCC A UCCGGUAC	2400	GTACCGGA GGCTAGCTACAACGA GGGCAGTC	20376
5346	UACCAGAC A UCCGCAGU	2404	ACTGCGGA GGCTAGCTACAACGA GTCTGGTA	20377
5366	CAGAGAAC A UAAUGGAA	2410	TTCCATTA GGCTAGCTACAACGA GTTCTCTG	20378
5392	UUGAUGUC A UGUGUCAU	2411	ATGACACA GGCTAGCTACAACGA GACATCAA	20379
5399	CAUGUGUC A UGUUACCC	2412	GGGTAGCA GGCTAGCTACAACGA GACACATG	20380
5410	CUACCCUC A CCCACAGG	2417	CCTGTGGG GGCTAGCTACAACGA GAGGGTAG	20381
5414	CCUACCCC A CAGGCUGA	2420	TCAGCCTG GGCTAGCTACAACGA GGGTGAGG	20382
5432	GUUCCUC A CAGGGUGC	2426	GCACCTTG GGCTAGCTACAACGA GAGGAGAC	20383
5474	UGAGGCUC A UUUCACCG	2434	CGGTGAAA GGCTAGCTACAACGA GAGCCTCA	20384
5479	CUCAUUC A CCGACCCA	2435	TGGGTGGG GGCTAGCTACAACGA GAAATGAG	20385
5494	CAGCUAGC A UUGCAGCA	2441	TGCTGCAA GGCTAGCTACAACGA GCTAGCTG	20386
5512	GAGGUUAC A UUUCACA	2444	TGTGAAA GGCTAGCTACAACGA GTAACCTC	20387
5518	ACAUUUCC A CAAAGGUC	2446	GACCTTTG GGCTAGCTACAACGA GGAATGT	20388
5554	CAUAUUC A UGACAGCC	2450	GGCTGTCA GGCTAGCTACAACGA GAATATTG	20389
5563	UGACAGC A CCCACCA	2453	TGGTGGGG GGCTAGCTACAACGA GGCTGTCA	20390
5568	GCCACCCC A CCAGGCAC	2457	GTGCTGGG GGCTAGCTACAACGA GGGGTGGC	20391
5575	CACCAGGC A CUUCAGAU	2460	ATCTGAAG GGCTAGCTACAACGA GCCTGGTG	20392

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5586	UCAGAUCC A UUCCAGAA	2464	TCTGGGAA GGCTAGCTACAACGA GGATCTGA	20393
5604	UCCAAUUC A CCAAUUC	2470	GAAATTGG GGCTAGCTACAACGA GAATTGGA	20394
5668	AAUGGAUC A CAGAAUAC	2482	GTATTCTG GGCTAGCTACAACGA GATCCATT	20395
5677	CAGAAUAC A CCGGGAAG	2484	CTTCCCGG GGCTAGCTACAACGA GTATTCTG	20396
5833	UGUUUAUC A CAACAGAC	2503	GTCTGTTG GGCTAGCTACAACGA GATAACAA	20397
5842	CAACAGAC A UAUCUGAA	2506	TTCAGATA GGCTAGCTACAACGA GTCTGTTG	20398
5911	AACCAACC A UCAUAACA	2517	TGTTATGA GGCTAGCTACAACGA GGTGGTT	20399
5914	CAACCAUC A UAACAGAA	2518	TTCTGTTA GGCTAGCTACAACGA GATGGTTG	20400
5952	GGAGAACC A UCUGCAGU	2523	ACTGCAGA GGCTAGCTACAACGA GGTCTCC	20401
6044	UGGGGGGC A CACGA AUG	2536	CATTCTGT GGCTAGCTACAACGA GCCCCCCA	20402
6046	GGGGGCAC A CGA AUGAA	2537	TTCATTCG GGCTAGCTACAACGA GTGCCCCC	20403
6074	CUUCGCCC A UUGGACUG	2542	CAGTCCAA GGCTAGCTACAACGA GGGCGAAG	20404
6087	ACUGAGGC A CGAAUCAU	2544	ATGATTCT GGCTAGCTACAACGA GCCTCAGT	20405
6094	CACGAUUC A UGUGGAC	2545	GTCCAGCA GGCTAGCTACAACGA GATTCTGT	20406
6106	UGGACAAC A UCAACAUG	2548	CATGTTGA GGCTAGCTACAACGA GTTGTTCA	20407
6112	ACAUAAC A UGCCAAC	2550	GTTTGGA GGCTAGCTACAACGA GTTGATGT	20408
6169	UAUAUACC A UGGAUGGG	2562	CCCATCCA GGCTAGCTACAACGA GGTATATA	20409
6282	GGAGUGUC A UACCACGA	2579	TCGTGGTA GGCTAGCTACAACGA GACACTCC	20410
6287	GUCAUACC A CGACCGGA	2581	TCCGGTCG GGCTAGCTACAACGA GGTATGAC	20411
6325	GGACAAAC A CAAUUUA	2587	TAAAATTG GGCTAGCTACAACGA GTTGTTCC	20412
6358	UGGAAGUC A UCACGAAG	2591	CTTCGTGA GGCTAGCTACAACGA GACTTCCA	20413
6361	AAGUCAUC A CGAAGCUU	2592	AAGCTTCG GGCTAGCTACAACGA GATGACTT	20414
6425	CUCGGAUC A CCAGGCAC	2600	GTGCTTGG GGCTAGCTACAACGA GATCCGAG	20415
6432	CACCAGGC A CUAAGGC	2603	GCCTTTAG GGCTAGCTACAACGA GCCTGGTG	20416
6484	UAGGGCUC A UUGAGGUU	2612	AACCTCAA GGCTAGCTACAACGA GAGCCCTA	20417
6512	GCCUGAGC A CUUCAUGG	2616	CCATGAAG GGCTAGCTACAACGA GCTCAGGC	20418
6517	AGCACUUC A UGGGGAAG	2618	CTTCCCCA GGCTAGCTACAACGA GAAGTGCT	20419
6528	GGGAAGAC A UGGGAAGC	2619	GCTTCCA GGCTAGCTACAACGA GTCTTCCC	20420
6537	UGGGAAGC A CUUGACAC	2620	GTGTCAAG GGCTAGCTACAACGA GCTTCCA	20421
6544	CACUUGAC A CCAUGUAC	2622	GTACATGG GGCTAGCTACAACGA GTCAGTG	20422
6547	UGACACC A UGUACGUU	2624	AACGTACA GGCTAGCTACAACGA GGTGTCAA	20423
6562	UUGUGGCC A CUGCAGAG	2626	CTCTGAG GGCTAGCTACAACGA GGCCCAA	20424
6587	AAGAGCUC A CAGAAUGG	2630	CCATTCTG GGCTAGCTACAACGA GAGCTCTT	20425
6661	UGAUGACC A UGGGAGUA	2647	TACTCCA GGCTAGCTACAACGA GGTATCA	20426
6682	UCCUCCUC A UGCAGCGG	2653	CCGTGCA GGCTAGCTACAACGA GAGGAGGA	20427
6697	GGAAAGGC A UUGGAAAG	2655	CTTTCCA GGCTAGCTACAACGA GCCCTTCC	20428
6889	UUUGUGUC A UGACCCUU	2688	AAGGGTCA GGCTAGCTACAACGA GACACAAA	20429
6952	AGAGUGAC A UAAGCAGU	2699	ACTGCTTA GGCTAGCTACAACGA GTCATCT	20430
7000	AUUUCAGC A UGGGAGAG	2704	CTCTCCA GGCTAGCTACAACGA GCTGAAAT	20431
7044	GCCUGGUC A CUGUACGC	2712	GCGTACAG GGCTAGCTACAACGA GACGAGGC	20432
7072	CGGUCCUC A CUCCACUG	2719	CAGTGGAG GGCTAGCTACAACGA GAGGACCG	20433
7077	CUCACUCC A CUGC AAA	2722	TTTAGCAG GGCTAGCTACAACGA GGAGTGAG	20434
7088	GUAAAAGC A UUUGAUCA	2725	TGATCAA GGCTAGCTACAACGA GCTTTAGC	20435
7096	AUUUGAUC A CGUCAGAU	2726	ATCTGACG GGCTAGCTACAACGA GATCAAAT	20436
7108	CAGAUUAC A UCAACACC	2728	GGTGTGA GGCTAGCTACAACGA GTAATCTG	20437
7114	ACAUCAAC A CCUCAUUG	2730	CAATGAGG GGCTAGCTACAACGA GTTGATGT	20438
7119	AACACCUC A UUGACCUC	2733	GAGGTCAA GGCTAGCTACAACGA GAGGTGTT	20439
7149	GCAAGUGC A CUAUUCAC	2739	GTGAATAG GGCTAGCTACAACGA GCACTTGC	20440
7156	CACUAUUC A CACUCGCG	2741	CGCGAGTG GGCTAGCTACAACGA GAATAGTG	20441
7158	CUAUUCAC A CUCGCGCG	2742	CGCGGAG GGCTAGCTACAACGA GTGAATAG	20442
7234	GACAAGUC A CCCUCACC	2758	GGTGAGGG GGCTAGCTACAACGA GACTTGTC	20443
7240	UCACCCUC A CCGUACG	2762	CGTAACGG GGCTAGCTACAACGA GAGGGTGA	20444
7263	GCGGCAAC A CUCCUUU	2766	AAAAGGAG GGCTAGCTACAACGA GTTGCCGC	20445
7277	UUUUUGCC A CUAUGCCU	2771	AGGCATAG GGCTAGCTACAACGA GGCAAAA	20446
7288	AUGCCUAC A UGUUCCC	2775	GGGAACCA GGCTAGCTACAACGA GTAGGCAT	20447
7351	CCGGAUUC A UGAAGAAC	2788	GTTCTTCA GGCTAGCTACAACGA GATTCCGG	20448
7375	UGGAUGGC A UCGUGGCC	2790	GGCCACGA GGCTAGCTACAACGA GCCATCCA	20449
7384	UCGUGGCC A CGGACGUC	2792	GACGTCCG GGCTAGCTACAACGA GGCCACGA	20450
7408	UAGAGCGC A CCACACCC	2796	GGGTGTGG GGCTAGCTACAACGA GCGCTCTA	20451
7411	AGCGCACC A CACCAUC	2798	GATGGGTG GGCTAGCTACAACGA GGTGCGCT	20452
7413	CGCACCAC A CCAUCAU	2799	ATGATGGG GGCTAGCTACAACGA GTGGTGCG	20453
7417	CCACACCC A UCAUGCAG	2802	CTGCATGA GGCTAGCTACAACGA GGGTGTGG	20454

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7420	CACCAUC A UGCAGAAG	2803	CTTCTGCA GGCTAGCTACAACGA GATGGGTG	20455
7444	GACAGAUC A UGCUAUC	2806	GATCAGCA GGCTAGCTACAACGA GATCTGTC	20456
7522	UUUGAUC A CGGCCGCA	2818	TGCGGCCG GGCTAGCTACAACGA GATCAAAA	20457
7585	CAACUGCC A UCGGACUC	2829	GAGTCCGA GGCTAGCTACAACGA GGCAGTTG	20458
7598	ACUCUGCC A CAUCAUGC	2833	GCATGATG GGCTAGCTACAACGA GGCAGAGT	20459
7600	UCUGCCAC A UCAUGCGU	2834	ACGCATGA GGCTAGCTACAACGA GTGGCAGA	20460
7603	GCCACAUC A UGCGUGGG	2835	CCCACGCA GGCTAGCTACAACGA GATGTGGC	20461
7623	UGGUUGUC A UGUCUAUC	2836	GATAGACA GGCTAGCTACAACGA GACAACCA	20462
7633	GUCUAUCC A UAACAUGG	2839	CCATGTTA GGCTAGCTACAACGA GGATAGAC	20463
7638	UCCAUAAC A UGGACACU	2840	AGTGTCCA GGCTAGCTACAACGA GTTATGGA	20464
7644	ACAUGGAC A CUCAUAAA	2841	TTTATGAG GGCTAGCTACAACGA GTCCATGT	20465
7648	GGACACUC A UAAAGAAC	2843	GTTCTTTA GGCTAGCTACAACGA GAGTGTCC	20466
7657	UAAAGAAC A UGGAAAAA	2844	TTTTTCCA GGCTAGCTACAACGA GTTCTTTA	20467
7699	AAGGACGC A CCUUGGGA	2849	TCCCAAGG GGCTAGCTACAACGA GCGTCCTT	20468
7753	AAGAGUUC A CUAGGUAC	2857	GTACCTAG GGCTAGCTACAACGA GAACTCTT	20469
7774	AAGAGGCC A UCAUCGAA	2862	TTCGATGA GGCTAGCTACAACGA GGCCTCTT	20470
7777	AGGCCAUC A UCGAAGUC	2863	GACTGTGA GGCTAGCTACAACGA GATGGCCT	20471
7805	GGCAAAAC A CGCCAGGA	2867	TCCTGGCG GGCTAGCTACAACGA GTTTTGCC	20472
7828	GCAUUGUC A CUGGAGGG	2871	CCCTCCAG GGCTAGCTACAACGA GACATTGC	20473
7838	UGGAGGGC A UCCAGUCU	2873	AGACTGGA GGCTAGCTACAACGA GCCCTCCA	20474
7855	CUAGGGGC A CAGCAAAA	2878	TTTTGCTG GGCTAGCTACAACGA GCCCTAG	20475
7990	GAGGGUAC A CAAAGGGC	2895	GCCCTTTG GGCTAGCTACAACGA GTACCCTC	20476
8009	UCCCGGAC A UGAAGAGC	2899	GCTCTTCA GGCTAGCTACAACGA GTCCGGGA	20477
8047	GAUGGAAC A UUGUCACC	2906	GGTGACAA GGCTAGCTACAACGA GTTCCATC	20478
8053	ACAUUGUC A CCAUGAAG	2907	CTTCATGG GGCTAGCTACAACGA GACAATGT	20479
8056	UUGUCACC A UGAAGAGU	2909	ACTCTTCA GGCTAGCTACAACGA GGTGACAA	20480
8104	GUUGUGAC A CCCUCCUU	2915	AAGGAGGG GGCTAGCTACAACGA GTCACAAC	20481
8119	UUUGUGAC A UCGGAGAG	2921	CTCTCCGA GGCTAGCTACAACGA GTCACAAA	20482
8156	UGAAGAGC A UAGGACGA	2926	TCGTCCTA GGCTAGCTACAACGA GCTCTTCA	20483
8198	CUGGUGUC A CCGAGGGC	2931	GCCCTCGG GGCTAGCTACAACGA GCAGCCAG	20484
8242	GCCCUAC A UGCCGAAA	2941	TTTCGGCA GGCTAGCTACAACGA GTAGGGGC	20485
8254	CGAAAGUC A UAGAGAAG	2943	CTTCTCTA GGCTAGCTACAACGA GACTTTTCG	20486
8310	AGAAACCC A CUCUCACG	2953	CGTGAGAG GGCTAGCTACAACGA GGGTTTCT	20487
8316	CCACUCUC A CGGAUUC	2956	GAATTCCG GGCTAGCTACAACGA GAGAGTGG	20488
8326	GGAAUUC A CGCACGAG	2958	CTCGTGCG GGCTAGCTACAACGA GGAATTCC	20489
8330	UUCACGC A CGAGAUGU	2959	ACATCTCG GGCTAGCTACAACGA GCGTGGAA	20490
8372	UGUGGUAC A UUCAGUGA	2963	TCACTGAA GGCTAGCTACAACGA GTACCACA	20491
8506	ACUCAGAC A CCAGUAAA	2989	TTTACTGG GGCTAGCTACAACGA GTCTGAGT	20492
8564	GACGUGGC A CCACGAUG	2997	CATCGTGG GGCTAGCTACAACGA GCCACGTC	20493
8567	GUGGCACC A CGAUGAGA	2999	TCTCATCG GGCTAGCTACAACGA GGTGCCAC	20494
8579	UGAGAACC A CCCAUUA	3001	TATATGGG GGCTAGCTACAACGA GGTCTCA	20495
8583	AACCACCC A UAUAGAAC	3004	GTTCTATA GGCTAGCTACAACGA GGGTGGTT	20496
8603	GAACUAUC A CGGCAUUC	3008	AACTGCCG GGCTAGCTACAACGA GATAGTTC	20497
8626	UGAAGCCC A CAGGCUCC	3012	GGAGCCTG GGCTAGCTACAACGA GGCCTTCA	20498
8679	UCAAAACC A UGGGACAC	3027	GTGTCCCA GGCTAGCTACAACGA GGTTTTGA	20499
8686	CAUGGGAC A CCAUCACG	3028	CGTGATGG GGCTAGCTACAACGA GTCCCATG	20500
8689	GGGACACC A UCACGAU	3030	ATTCTGTA GGCTAGCTACAACGA GTGTCTCC	20501
8692	ACACCAUC A CGAAUGUU	3031	AACATTGG GGCTAGCTACAACGA GATGGTGT	20502
8704	AUGUUACC A CCAUGGCC	3033	GGCCATGG GGCTAGCTACAACGA GGTAACAT	20503
8707	UUACCACC A UGGCCAUG	3035	CATGGCCA GGCTAGCTACAACGA GGTGGTAA	20504
8713	CCAUGGCC A UGACUGAC	3037	GTCAGTCA GGCTAGCTACAACGA GGCCATGG	20505
8722	UGACUGAC A CUACUCC	3039	GGGAGTAG GGCTAGCTACAACGA GTCAGTCA	20506
8767	AGGUGGAC A CGAAAGCU	3048	AGCTTTTC GGCTAGCTACAACGA GTCCACCT	20507
8818	AUGAGACC A CCAACUGG	3058	CCAGTTGG GGCTAGCTACAACGA GGTCTCAT	20508
8884	AGGAAUUC A UAGAAAG	3069	CTTTCTTA GGCTAGCTACAACGA GAATTCTT	20509
8920	UGGGUGCC A UGUUGAA	3076	TTCAAACA GGCTAGCTACAACGA GGCACCCA	20510
9009	CGCGAGGC A CAUCUGCG	3084	CGCAGATG GGCTAGCTACAACGA GCCTCGCG	20511
9011	CGAGGCAC A UCUGCGGG	3085	CCCGCAGA GGCTAGCTACAACGA GTGCCTCG	20512
9029	GGAAUGUC A CACUUGCA	3087	TGCAAGTG GGCTAGCTACAACGA GACATTCC	20513
9031	AAUGUCAC A CUUGCAU	3088	AATGCAAG GGCTAGCTACAACGA GTGACATT	20514
9037	ACACUUGC A UUUACAAC	3090	GTTGTAAA GGCTAGCTACAACGA GCAAGTGT	20515
9046	UUUACAAC A UGAUGGGA	3092	TCCCATCA GGCTAGCTACAACGA GTTGTAAA	20516

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9106	GCAGAGCC A UUUGGUUC	3099	GAACCAAA GGCTAGCTACAACGA GGCTCTGC	20517
9115	UUUGGUUC A UGUGGCUC	3100	GAGCCACA GGCTAGCTACAACGA GAACCAAA	20518
9173	UGAAGACC A CUGGCUUG	3110	CAAGCCAG GGCTAGCTACAACGA GGTCTTCA	20519
9238	UGGGUUAC A UCCUGCGU	3121	ACGCAGGA GGCTAGCTACAACGA GTAACCCA	20520
9256	AAGUUGGC A CCCGCCU	3124	AGGCCGGG GGCTAGCTACAACGA GCCAACTT	20521
9289	CUGAUGAC A CAGCUGGC	3132	GCCAGCTG GGCTAGCTACAACGA GTCATCAG	20522
9304	GCUGGGAC A CCCGCAUC	3136	GATGCGGG GGCTAGCTACAACGA GTCCAGC	20523
9310	ACACCCGC A UCACGAGA	3139	TCTCGTGA GGCTAGCTACAACGA GCGGGTGT	20524
9313	CCCGCAUC A CGAGAGCU	3140	AGCTCTCG GGCTAGCTACAACGA GATGCGGG	20525
9368	UGGGGAAC A UCGGCGUC	3147	GACGCGGA GGCTAGCTACAACGA GTTCCCA	20526
9388	CCAGGGCC A UCAUUGAG	3152	CTCAATGA GGCTAGCTACAACGA GGCCCTGG	20527
9391	GGGCCAUC A UUGAGCUC	3153	GAGCTCAA GGCTAGCTACAACGA GATGGCCC	20528
9400	UUGAGCUC A CCUAUCGU	3155	ACGATAGG GGCTAGCTACAACGA GAGCTCAA	20529
9410	CUAUCGUC A CAAAGUUG	3158	CAACTTTG GGCTAGCTACAACGA GACGATAG	20530
9457	GAACCGUC A UGGAUGUU	3165	AACATCCA GGCTAGCTACAACGA GACGGTTC	20531
9505	AAGUUGUC A CCUACGCC	3171	GGCGTAGG GGCTAGCTACAACGA GACAACTT	20532
9520	CCCUAAAC A CUUUCACC	3177	GGTGAAG GGCTAGCTACAACGA GTTTAGGG	20533
9526	ACACUUC A CCAACCTG	3179	CAGGTTGG GGCTAGCTACAACGA GAAAGTGT	20534
9601	AGAAACUC A CAAAAGGG	3192	CCCTTTTG GGCTAGCTACAACGA GAGTTTCT	20535
9667	UCAGCCGC A UGGCUGUC	3204	GACAGCCA GGCTAGCTACAACGA GCGGCTGA	20536
9721	GUUUGCC A CCUCGCUC	3214	GAGCGAGG GGCTAGCTACAACGA GGCAAAGC	20537
9731	CUCGCUC A CUUCCUCA	3219	TGAGGAAG GGCTAGCTACAACGA GGAGCGAG	20538
9766	GCAAAGAC A UCCAAGAG	3227	CTCTTGGA GGCTAGCTACAACGA GTCTTTGC	20539
9816	CAGGUUCC A UUUGCUC	3236	GAGCAAAA GGCTAGCTACAACGA GGAACCTG	20540
9830	CUCAAACC A UUUCACUG	3240	CAGTGAAA GGCTAGCTACAACGA GGTTTGAG	20541
9835	ACCAUUC A CUGAAUUG	3241	CAATTGAG GGCTAGCTACAACGA GAAATGGT	20542
9847	AAUUGAUC A UGAAAGAU	3243	ATCTTTCA GGCTAGCTACAACGA GATCAATT	20543
9864	GGAAGAAC A CUGGUGGU	3244	ACCACCAG GGCTAGCTACAACGA GTTCTTCC	20544
9876	GUGGUUCC A UGCCGAGG	3247	CCTCGGCA GGCTAGCTACAACGA GGAACCAC	20545
9913	GAGCUCGC A UAUCUCCA	3252	TGGAGATA GGCTAGCTACAACGA GCGAGCTC	20546
9946	UCCGCGAC A CUGCUUGU	3258	ACAAGCAG GGCTAGCTACAACGA GTCGCGGA	20547
9998	GUACUUC A CAGAAGAG	3272	CTCTTCTG GGCTAGCTACAACGA GGAAGTAC	20548
10018	UGCGGCUC A UGGCCAAC	3277	GTTGGCCA GGCTAGCTACAACGA GAGCCGCA	20549
10030	CCAACGCC A UUUGCUCC	3281	GGAGCAAA GGCTAGCTACAACGA GGC GTTGG	20550
10075	GAAGAACC A CGUGGUCC	3293	GGACCACG GGCTAGCTACAACGA GGTTCCTC	20551
10084	CGUGGUCC A UCCAUGCA	3295	TGCATGGA GGCTAGCTACAACGA GGACCACG	20552
10088	GUCCAUC A UGCAGGAG	3297	CTCCTGCA GGCTAGCTACAACGA GGATGGAC	20553
10120	CAGAGGAC A UGUUGGAG	3301	CTCCAACA GGCTAGCTACAACGA GTCTCTG	20554
10206	GACGUCCC A UAUUCAGG	3311	CCTGAATA GGCTAGCTACAACGA GGGACGTC	20555
10228	GAGAGGAC A UCUGGUGU	3313	ACACCAGA GGCTAGCTACAACGA GTCCTCTC	20556
10252	UGAUUGGC A CAAGAGCC	3318	GGCTCTTG GGCTAGCTACAACGA GCCAATCA	20557
10267	CCCGAGCC A CGUGGGCA	3323	TGCCACAG GGCTAGCTACAACGA GGCTCGGG	20558
10282	CAGAAAAC A UCCAGGUG	3325	CACCTGGA GGCTAGCTACAACGA GTTTCTG	20559
10315	GAGCAAUC A UCGGAGAU	3334	ATCTCCGA GGCTAGCTACAACGA GATTGCTC	20560
10342	UGGAUUC A UGAGUUA	3335	TGAATCA GGCTAGCTACAACGA GTAATCCA	20561
10350	AUGAGUUC A CUAAAGAG	3336	CTCTTTAG GGCTAGCTACAACGA GAACTCAT	20562
10369	AUGAAGAC A CAACUUUG	3338	CAAGTTTG GGCTAGCTACAACGA GTCTTCAT	20563
10387	UUGAGGAC A CAGUACUG	3341	CAGTACTG GGCTAGCTACAACGA GTCCTCAA	20564
10436	AAGUAUGC A UAAAAGUG	3346	CACTTTTA GGCTAGCTACAACGA GCATACTT	20565
10528	UUCCCGCC A CCGGAAGU	3352	ACTTCCGG GGCTAGCTACAACGA GCGGGGAA	20566
10604	AGUGAUCC A UGUAAAGC	3367	GGCTTACA GGCTAGCTACAACGA GGATCACT	20567
10641	AGGACCCC A CAUGUUGU	3377	ACAACATG GGCTAGCTACAACGA GGGGTCTT	20568
10643	GACCCAC A UGUUGUAA	3378	TTACAACA GGCTAGCTACAACGA GTGGGGTC	20569
10674	GUCAGACC A CGCUACGG	3386	CCGTAGCG GGCTAGCTACAACGA GGTCTGAC	20570
10759	AACGCCCC A CGCGGCC	3405	GGGCCGCG GGCTAGCTACAACGA GGGCGGTT	20571
10838	UAAAGUGC A CGGCCACG	3418	CTGGGCCG GGCTAGCTACAACGA GCACTTTA	20572
10903	CCCGUGCC A CAAAACAC	3432	GTGTTTTG GGCTAGCTACAACGA GGCACGGG	20573
10910	CACAAAAC A CCACAACA	3434	TGTTGTGG GGCTAGCTACAACGA GTTTGTG	20574
10913	AAAACACC A CAACAAA	3436	TTTTGTG GGCTAGCTACAACGA GGTGTTTT	20575
10926	AAAACAGC A UAUUGACA	3440	TGTCAATA GGCTAGCTACAACGA GCTGTTTT	20576
10934	AUAUUGAC A CCUGGGAU	3441	ATCCCAGG GGCTAGCTACAACGA GTCAATAT	20577
10967	UGCUCUGC A CAACCAGC	3449	GCTGGTTG GGCTAGCTACAACGA GCAGAGCA	20578

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10977	AACCAGCC A CACGGCAC	3454	GTGCCGTG GGCTAGCTACAACGA GGCTGGTT	20579
10979	CCAGCCAC A CGGCACAG	3455	CTGTGCCG GGCTAGCTACAACGA GTGGCTGG	20580
10984	CACACGGC A CAGUGCGC	3456	GCGCACTG GGCTAGCTACAACGA GCCGTGTG	20581
11021	GCGAGAAC A CAGGAUCU	3461	AGATCCTG GGCTAGCTACAACGA GTTCTCGC	20582
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GGCTAGCTACAACGA GAACTACT	20583
13	GUUCGCCU G UGUGAGCU	3463	AGCTCACA GGCTAGCTACAACGA AGGCGAAC	20584
15	UCGCCUGU G UGAGCUGA	3464	TCAGCTCA GGCTAGCTACAACGA ACAGGCGA	20585
19	CUGUGUGA G CUGACAAA	3465	TTTGTGAG GGCTAGCTACAACGA TCACACAG	20586
32	CAAAUUA G UAGUGUUU	3466	AAACACTA GGCTAGCTACAACGA TAAGTTTG	20587
35	ACUUAUGA G UGUUUGUG	3467	CACAAACA GGCTAGCTACAACGA TACTAAGT	20588
37	UUAGUAGU G UUUGUGAG	3468	CTCAGAAA GGCTAGCTACAACGA ACTACTAA	20589
41	UAGUGUUU G UGAGGAUU	3469	AATCCTCA GGCTAGCTACAACGA AAACACTA	20590
66	UUAACACA G UGCGAGCU	3470	AGCTCGCA GGCTAGCTACAACGA TGTGTTAA	20591
68	AACACAGU G CGAGCUGU	3471	ACAGCTCG GGCTAGCTACAACGA ACTGTGTT	20592
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GGCTAGCTACAACGA TCGCACTG	20593
75	UGCGAGCU G UUUCUUAG	3473	CTAAGAAA GGCTAGCTACAACGA AGCTCGCA	20594
83	GUUUCUUA G CACGAAGA	3474	TCTTCGTG GGCTAGCTACAACGA TAAGAAAC	20595
99	AUCUCGAU G UCUAAGAA	3475	TTCTTAGA GGCTAGCTACAACGA ATCGAGAT	20596
117	CCAGGAGG G CCCGGCAA	3476	TTGCCGGG GGCTAGCTACAACGA CCTCCTGG	20597
122	AGGGCCCG G CAAGAGCC	3477	GGCTCTTG GGCTAGCTACAACGA CGGGCCCT	20598
128	CGGCAAGA G CCGGGCUG	3478	CAGCCCGG GGCTAGCTACAACGA TCTTGCCG	20599
133	AGAGCCGG G CUGUCAAU	3479	ATTGACAG GGCTAGCTACAACGA CCGGCTCT	20600
136	GCCGGGCU G UCAAUAUG	3480	CATATTGA GGCTAGCTACAACGA AGCCCGGC	20601
144	GUCAAUAU G CUAAAACG	3481	CGTTTATG GGCTAGCTACAACGA ATATTGAC	20602
152	GCUAAAAC G CGGAAUGC	3482	GCATTCCG GGCTAGCTACAACGA GTTTTAGC	20603
159	CGCGGAU G CCCCGCGU	3483	ACGCGGGG GGCTAGCTACAACGA ATTCCGCG	20604
164	AAUGCCCC G CGUGUUGU	3484	ACAACACG GGCTAGCTACAACGA GGGGCAIT	20605
166	UGCCCCGC G UGUUGUCC	3485	GGACAACA GGCTAGCTACAACGA GCGGGGCA	20606
168	CCCCGCGU G UUGUCCUU	3486	AAGGACAA GGCTAGCTACAACGA ACGCGGGG	20607
171	CGCGUGUU G UCCUUGAU	3487	ATCAAGGA GGCTAGCTACAACGA AACACGCG	20608
193	UGAAGAGG G CUAUGUUG	3488	CAACATAG GGCTAGCTACAACGA CCTCTTCA	20609
198	AGGGCUAU G UUGAGCCU	3489	AGGCTCAA GGCTAGCTACAACGA ATAGCCCT	20610
203	UAUGUUGA G CCUGAUCG	3490	CGATCAGG GGCTAGCTACAACGA TCAACATA	20611
215	GAUCGACG G CAAGGGGC	3491	GCCCCCTG GGCTAGCTACAACGA CGTCGATC	20612
222	GGCAAGGG G CCAAUACG	3492	CGTATTGG GGCTAGCTACAACGA CCCTTGCC	20613
235	UACGAUUU G UGUUGGCU	3493	AGCCAACA GGCTAGCTACAACGA AAATCGTA	20614
237	CGAUUUUG G UUGGCUCU	3494	AGAGCCAA GGCTAGCTACAACGA ACAATCG	20615
241	UUGUGUUG G CUCUCUUG	3495	CAAGAGAG GGCTAGCTACAACGA CAACACAA	20616
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GGCTAGCTACAACGA CAAGAGAG	20617
252	CUCUUGGC G UUCUUCAG	3497	CTGAAGAA GGCTAGCTACAACGA GCCAAGAG	20618
261	UUCUUCAG G UUCACAGC	3498	GCTGTGAA GGCTAGCTACAACGA CTGAAGAA	20619
268	GGUUCACA G CAAUUGCU	3499	AGCAATTG GGCTAGCTACAACGA TGTGAACC	20620
274	CAGCAAUU G CUCCGACC	3500	GGTCGGAG GGCTAGCTACAACGA AATTGCTG	20621
286	CGACCCGA G CAGUGCUG	3501	CAGCACTG GGCTAGCTACAACGA TCGGGTCG	20622
289	CCCGAGCA G UGCUGGAU	3502	ATCCAGCA GGCTAGCTACAACGA TGCTCGGG	20623
291	CGAGCAGU G CUGGAUCG	3503	CGATCCAG GGCTAGCTACAACGA ACTGCTCG	20624
308	AUGGAGAG G UGUGAACA	3504	TGTTTACA GGCTAGCTACAACGA CTCTCCAT	20625
310	GGAGAGGU G UGAACAAA	3505	TTTGTTCG GGCTAGCTACAACGA ACCTCTCC	20626
325	AACAAACA G CGAUGAAA	3506	TTTCATCG GGCTAGCTACAACGA TGTGTGTT	20627
344	CCUUCUGA G UUUUAAGA	3507	TCTTAAAA GGCTAGCTACAACGA TCAGAAGG	20628
374	CUUGACCA G UGCUAUCA	3508	TGATAGCA GGCTAGCTACAACGA TGGTCAAG	20629
376	UGACCAGU G CUAUCAAU	3509	ATTGATAG GGCTAGCTACAACGA ACTGGTCA	20630
387	AUCAUUCG G CGGAGCUC	3510	GAGCTCCG GGCTAGCTACAACGA CGATTGAT	20631
392	UCGGCGGA G CUCAAAAC	3511	GTTTGTAG GGCTAGCTACAACGA TCCGCGGA	20632
430	CCGGAAUU G CAGUCAUG	3512	CATGACTG GGCTAGCTACAACGA AATTCCGG	20633
433	GAAUUGCA G UCAUGAUU	3513	AATCATGA GGCTAGCTACAACGA TGCAATTC	20634
443	CAUGAUUG G CCUGAUCG	3514	CGATCAGG GGCTAGCTACAACGA CAATCATG	20635
451	GCCUGAUC G CCAGCGUA	3515	TACGCTGG GGCTAGCTACAACGA GATCAGGC	20636
455	GAUCGCCA G CGUAGGAG	3516	CTCCTACG GGCTAGCTACAACGA TGCGGATC	20637
457	UCGCCAGC G UAGGAGCA	3517	TGCTCCTA GGCTAGCTACAACGA GCTGGCGA	20638
463	GCGUAGGA G CAGUUACC	3518	GGTAACTG GGCTAGCTACAACGA TCCTACGC	20639
466	UAGGAGCA G UUACCCUC	3519	GAGGGTAA GGCTAGCTACAACGA TGCTCCTA	20640

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493	AAGGGAAG G UGAUGAUG	3520	CATCATCA GGCTAGCTACAACGA CTTCCCTT	20641
505	UGAUGACG G UAAUGCU	3521	AGCATTTA GGCTAGCTACAACGA CGTCATCA	20642
511	CGGUAAAU G CUACUGAC	3522	GTCAGTAG GGCTAGCTACAACGA ATTTACCG	20643
520	CUACUGAC G UCACAGAU	3523	ATCTGTGA GGCTAGCTACAACGA GTCAGTAG	20644
529	UCACAGAU G UCAUCACG	3524	CGTGTGA GGCTAGCTACAACGA ATCTGTGA	20645
547	UUCCAACA G CUGCUGGA	3525	TCCAGCAG GGCTAGCTACAACGA TGTGGAA	20646
550	CAACAGCU G CUGGAAAG	3526	CTTCCAG GGCTAGCTACAACGA AGCTGTG	20647
566	GAACCUAU G CAUUGUCA	3527	TGACAATG GGCTAGCTACAACGA ATAGGTTT	20648
571	UAUGCAU G UCAGAGCA	3528	TGCTCTGA GGCTAGCTACAACGA AATGCATA	20649
577	UUGUCAGA G CAAUGGAU	3529	ATCCATTG GGCTAGCTACAACGA TCTGACAA	20650
586	CAAUGGAU G UGGGAUAC	3530	GTATCCCA GGCTAGCTACAACGA ATCCATTG	20651
597	GGAUACAU G UGCGAUGA	3531	TCATCGCA GGCTAGCTACAACGA ATGTATCC	20652
599	AUACAUGU G CGAUGAUA	3532	TATCATCG GGCTAGCTACAACGA ACATGTAT	20653
623	UUAUGAAU G CCCAGUGC	3533	GCACGCGG GGCTAGCTACAACGA ATTCATAA	20654
628	AAUGCCCA G UGCUGUCG	3534	CGACAGCA GGCTAGCTACAACGA TGGGCATT	20655
630	UGCCCAAGU G CUGUCGGC	3535	GCCGACAG GGCTAGCTACAACGA ACTGGGCA	20656
633	CCAGUCAGU G UCGGCUAG	3536	CCAGCCGA GGCTAGCTACAACGA AGCACTGG	20657
637	UGCUGUCG G CUGGUAU	3537	ATTCCAG GGCTAGCTACAACGA CGACAGCA	20658
641	GUCGGCUG G UAAUGAUC	3538	GATCATTA GGCTAGCTACAACGA CAGCCGAC	20659
665	CAUCGACU G UUGGUGCA	3539	TGCACCAA GGCTAGCTACAACGA AGTCGATG	20660
669	GACUGUUG G UGCACAAA	3540	TTTGTGCA GGCTAGCTACAACGA CAACAGTC	20661
671	CUGUUGGU G CACAAAGU	3541	ACTTTGTG GGCTAGCTACAACGA ACCAACAG	20662
678	UGCACAAA G UCAGCAGU	3542	ACTGTCTG GGCTAGCTACAACGA TTTGTGCA	20663
682	CAAAGUCA G CAGUCUAC	3543	GTAGACTG GGCTAGCTACAACGA TGACTTTG	20664
685	AGUCAGCA G UCUACGUC	3544	GACGTAGA GGCTAGCTACAACGA TGCTGACT	20665
691	CAGUCUAC G UCAGGUAU	3545	ATACCTGA GGCTAGCTACAACGA GTAGACTG	20666
696	UACGUCAG G UAUGGAAG	3546	CTTCCATA GGCTAGCTACAACGA CTGACGTA	20667
707	UGGAAGAU G CACCAAGA	3547	TCTTGGTG GGCTAGCTACAACGA ATCTTCCA	20668
719	CAAGACAC G CCACUCAA	3548	TTGAGTGG GGCTAGCTACAACGA GTGTCTTG	20669
731	CUCAAGAC G CAGUCGGA	3549	TCCGACTG GGCTAGCTACAACGA GTCTTGAG	20670
734	AAGACGCA G UCGGAGGU	3550	ACCTCCGA GGCTAGCTACAACGA TGCGTCTT	20671
741	AGUCGGAG G UCACUGAC	3551	GTCAGTGA GGCTAGCTACAACGA CTCGACT	20672
751	CACUGACA G UGCAGACA	3552	TGTCTGCA GGCTAGCTACAACGA TGTCAGTG	20673
753	CUGACAGU G CAGACACA	3553	TGTGTCTG GGCTAGCTACAACGA ACTGTCAG	20674
770	CGGAGAAA G CACUCUAG	3554	CTAGAGTG GGCTAGCTACAACGA TTTCTCCG	20675
778	GCACUCUA G CGAACAAG	3555	CTTGTTCG GGCTAGCTACAACGA TAGAGTGC	20676
793	AGAAGGGG G CUUGGAUG	3556	CATCCAAG GGCTAGCTACAACGA CCCCTTCT	20677
806	GAUGGACA G CACCAAGG	3557	CCTTGGTG GGCTAGCTACAACGA TGTCCATC	20678
814	GCAACAAG G CCACAAGG	3558	CCTTGTGG GGCTAGCTACAACGA CTTGGTGC	20679
822	GCCACAAG G UAUUUGGU	3559	ACCAATAA GGCTAGCTACAACGA CTTGTGGC	20680
829	GGUAUUGU G UAAAAACA	3560	TGTTTTTA GGCTAGCTACAACGA CAAATACC	20681
868	CUGGAUUA G CCCUGGUG	3561	CACCAGGG GGCTAGCTACAACGA ATATCCAG	20682
874	AUGCCUGU G UGGCAGCC	3562	GGCTGCCA GGCTAGCTACAACGA CAGGGCAT	20683
877	CCCUGGUG G CAGCCGUC	3563	GACGGCTG GGCTAGCTACAACGA CACCAGGG	20684
880	UGGUGGCA G CCGUCAU	3564	AATGACGG GGCTAGCTACAACGA TGCCACCA	20685
883	UGGCAGCC G UCAUUGGU	3565	ACCAATGA GGCTAGCTACAACGA GGCTGCCA	20686
890	CGUCAUUG G UUGGAUGC	3566	GCATCCAA GGCTAGCTACAACGA CAATGACG	20687
897	GGUUGGAU G CUUGGGAG	3567	CTCCCAAG GGCTAGCTACAACGA ATCCAACC	20688
905	GCUUGGGA G CAACACCA	3568	TGGTGTG GGCTAGCTACAACGA TCCCAAGC	20689
915	AACACCAU G CAGAGAGU	3569	ACTCTCTG GGCTAGCTACAACGA ATGGTGT	20690
922	UGCAGAGA G UUGUGUUU	3570	AAACACAA GGCTAGCTACAACGA TCTCTGCA	20691
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GGCTAGCTACAACGA AACTCTCT	20692
927	AGAGUUGU G UUUGUCU	3572	ACGACAAA GGCTAGCTACAACGA ACACTCT	20693
931	UUGUGUUU G UCGUGCUA	3573	TAGCAGCA GGCTAGCTACAACGA AAACACAA	20694
934	UGUUUGUC G UGCUAUUG	3574	CAATAGCA GGCTAGCTACAACGA GACAAACA	20695
936	UUUGUCGU G CUAUUGCU	3575	AGCAATAG GGCTAGCTACAACGA ACGACAAA	20696
942	GUGCUAUU G CUUUUGGU	3576	ACCAAAAG GGCTAGCTACAACGA AATAGCAC	20697
949	UGC UUUG G UGGCCCA	3577	TGGGGCCA GGCTAGCTACAACGA CAAAAGCA	20698
952	UUUUGGUG G CCCCAGCU	3578	AGCTGGGG GGCTAGCTACAACGA CACCAAAA	20699
958	UGGCCCA G CUUACAGC	3579	GCTGTAAG GGCTAGCTACAACGA TGGGGCCA	20700
965	AGCUUACA G CUUCAACU	3580	AGTTGAAG GGCTAGCTACAACGA TGTAAGCT	20701
974	CUUCAACU G CCUUGGAA	3581	TTCCAAGG GGCTAGCTACAACGA AGTTGAAG	20702

986	UGGAAUGA G CAACAGAG	3582	CTCTGTTG GGCTAGCTACAACGA TCATTCCA	20703
1009	UGGAAGGA G UGUCUGGA	3583	TCCAGACA GGCTAGCTACAACGA TCCTTCCA	20704
1011	GAAGGAGU G UCUGGAGC	3584	GCTCCAGA GGCTAGCTACAACGA ACTCCTTC	20705
1018	UGUCUGGA G CAACAUGG	3585	CCATGTTG GGCTAGCTACAACGA TCCAGACA	20706
1027	CAACAUGG G UGGAUUUG	3586	CAAAATCCA GGCTAGCTACAACGA CCATGTTG	20707
1036	UGGAUUUG G UUCUCGAA	3587	TTGAGAGAA GGCTAGCTACAACGA CAAATCCA	20708
1046	UCUCGAAG G CGACAGCU	3588	AGCTGTCG GGCTAGCTACAACGA CTTCGAGA	20709
1052	AGGCGACA G CUGCGUGA	3589	TCACGCAG GGCTAGCTACAACGA TGTCGCCT	20710
1055	CGACAGCU G CGUGACUA	3590	TAGTCACG GGCTAGCTACAACGA AGCTGTCG	20711
1057	ACAGCUGC G UGACUAUC	3591	GATAGTCA GGCTAGCTACAACGA GCAGCTGT	20712
1068	ACUAUCAU G UCUAAGGA	3592	TCCTTAGA GGCTAGCTACAACGA ATGATAGT	20713
1080	AAGGACAA G CCUACCAU	3593	ATGGTAGG GGCTAGCTACAACGA TTGTCCTT	20714
1093	CCAUCGAU G UGAAGAUG	3594	CATCTTCA GGCTAGCTACAACGA ATCGATGG	20715
1114	AUAUGGAG G CGGUCAAC	3595	GTGACCG GGCTAGCTACAACGA CTCCATAT	20716
1117	UGGAGGCG G UCAACCTUG	3596	CAGGTTGA GGCTAGCTACAACGA CGCCTCCA	20717
1126	UCAACCUG G CAGAGGUC	3597	GACCTCTG GGCTAGCTACAACGA CAGGTTGA	20718
1132	UGGCAGAG G UCCGCAGU	3598	ACTGCGGA GGCTAGCTACAACGA CTCTGCCA	20719
1136	AGAGGUCC G CAGUUAUU	3599	AATAACTG GGCTAGCTACAACGA GGACCTCT	20720
1139	GGUCCGCA G UUAUUGCU	3600	AGCAATAA GGCTAGCTACAACGA TGCGGACC	20721
1145	CAGUUAUU G CUAUUUGG	3601	CCAAATAG GGCTAGCTACAACGA AATAACTG	20722
1153	GCUAUUUG G CUACCGUC	3602	GACGGTAG GGCTAGCTACAACGA CAAATAGC	20723
1159	UGGCUACC G UCAGCGAU	3603	ATCGCTGA GGCTAGCTACAACGA GGTAGCCA	20724
1163	UACCGUCA G CGAUCUCU	3604	AGAGATCG GGCTAGCTACAACGA TGACGGTA	20725
1180	CCACCAA G CUGCGUGC	3605	GCACGCAG GGCTAGCTACAACGA TTTGGTGG	20726
1183	CCAAAGCU G CGUGCCCG	3606	CGGGCACG GGCTAGCTACAACGA AGCTTTGG	20727
1185	AAAGCUGC G UGCCCGAC	3607	GTCGGGCA GGCTAGCTACAACGA GCAGCTTT	20728
1187	AGCUGCGU G CCCGACCA	3608	TGGTCGGG GGCTAGCTACAACGA ACGCAGCT	20729
1204	UGGGAGAA G CUCACAAU	3609	ATTGTGAG GGCTAGCTACAACGA TTCTCCCA	20730
1220	UGACAAAC G UGCUGACC	3610	GGTCAGCA GGCTAGCTACAACGA GTTTGTCA	20731
1222	ACAAACGU G CUGACCCA	3611	TGGGTCAG GGCTAGCTACAACGA ACGTTTGT	20732
1231	CUGACCCA G CUUUUGUG	3612	CACAAAGG GGCTAGCTACAACGA TGGGTCAG	20733
1237	CAGCUUUU G UGUGCAGA	3613	TCTGCACA GGCTAGCTACAACGA AAAAGCTG	20734
1239	GCUUUUGU G UGCAGACA	3614	TGTCTGCA GGCTAGCTACAACGA ACAAAAGC	20735
1241	UUUUGUGU G CAGACAAG	3615	CTTGTCTG GGCTAGCTACAACGA ACACAAAA	20736
1252	GACAAGGA G UGGUGGAC	3616	GTCCACCA GGCTAGCTACAACGA TCCTTGTC	20737
1255	AAGGAGUG G UGGACAGG	3617	CCTGTCCA GGCTAGCTACAACGA CACTCCTT	20738
1265	GGACAGGG G CUGGGGCA	3618	TGCCCCAG GGCTAGCTACAACGA CCTGTGCC	20739
1271	GGGUGGGG G CAACGGCU	3619	AGCCGTTG GGCTAGCTACAACGA CCCAGCCC	20740
1277	GGGCAACG G CUGCGGAU	3620	ATCCGCAG GGCTAGCTACAACGA CGTTGCC	20741
1280	CAACGGCU G CGGAUUUU	3621	ATAATCCG GGCTAGCTACAACGA AGCCGTTG	20742
1292	AUUUUUUG G CAAAGGAA	3622	TTCTTTTG GGCTAGCTACAACGA CAAATAAT	20743
1301	CAAAGGAA G CAUUGACA	3623	TGTCAATG GGCTAGCTACAACGA TTCTTTTG	20744
1313	UGACACAU G CGCCAAAU	3624	ATTGGCGG GGCTAGCTACAACGA ATGTGTCA	20745
1315	ACACAUGC G CCAAAUUU	3625	AAATTTGG GGCTAGCTACAACGA GCATGTGT	20746
1324	CCAAUUUU G CCUGCUCU	3626	AGACGAGG GGCTAGCTACAACGA AAATTTGG	20747
1328	AUUUGCCU G CUCUACCA	3627	TGGTAGAG GGCTAGCTACAACGA AGGCAAT	20748
1339	CUACCAAG G CAUAGGA	3628	TCCTATTG GGCTAGCTACAACGA CTTGGTAG	20749
1374	AAUAUCAA G UACGAAGU	3629	ACTTCGTA GGCTAGCTACAACGA TTGATATT	20750
1381	AGUACGAA G UGGCCAUU	3630	AATGGCCA GGCTAGCTACAACGA TTCGTACT	20751
1384	ACGAAGUG G CCAUUUUU	3631	AAAAATGG GGCTAGCTACAACGA CACTTCGT	20752
1393	CCAUUUUU G UCCAUGGA	3632	TCCATGGA GGCTAGCTACAACGA AAAAATGG	20753
1411	CAACUACU G UGGAGUCG	3633	CGACTCCA GGCTAGCTACAACGA AGTAGTTG	20754
1416	ACUGUGGA G UCGCACGG	3634	CCGTGCGA GGCTAGCTACAACGA TCCACAGT	20755
1419	GUGGAGUC G CACGAAA	3635	TTTCCGTG GGCTAGCTACAACGA GACTCCAC	20756
1441	CCACACAG G UUGGAGCC	3636	GGCTCCAA GGCTAGCTACAACGA CTGTGTGG	20757
1447	AGGUUGGA G CCACUCAG	3637	CTGAGTGG GGCTAGCTACAACGA TCCAACCT	20758
1456	GACUCAG G CAGGGAGA	3638	TCTCCCTG GGCTAGCTACAACGA CTGAGTGG	20759
1469	GGAUUCCA G CAUCACUC	3639	GAGTGATG GGCTAGCTACAACGA TGAATCTC	20760
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCCG GGCTAGCTACAACGA AGGAGTGA	20761
1483	CUCCUGCG G CGCCUUCA	3641	TGAAGGCG GGCTAGCTACAACGA CGCAGGAG	20762
1485	CCUGCGGC G CCUUCAUA	3642	TATGAAGG GGCTAGCTACAACGA GCCGCAGG	20763
1503	ACACUAAA G CUUGGAGA	3643	TCTCCAAG GGCTAGCTACAACGA TTTAGTGT	20764

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1522	AUGGAGAG G UGACAGUG	3644	CACTGTCA GGCTAGCTACAACGA CTCTCCAT	20765
1528	AGGUGACA G UGGACUGU	3645	ACAGTCCA GGCTAGCTACAACGA TGTCACCT	20766
1535	AGUGGACU G UGAACCAC	3646	GTGGTTCA GGCTAGCTACAACGA AGTCCACT	20767
1545	GAACCACG G UCAGGGAU	3647	ATCCCTGA GGCTAGCTACAACGA CGTGGTTC	20768
1564	ACACCAAU G CAUACUAC	3648	GTAGTATG GGCTAGCTACAACGA ATTGGTGT	20769
1573	CAUACUAC G UGAUGACU	3649	AGTCATCA GGCTAGCTACAACGA GTAGTATG	20770
1582	UGAUGACU G UUGGAACA	3650	TGTTCCAA GGCTAGCTACAACGA AGTCATCA	20771
1596	ACAAAGAC G UUCUUGGU	3651	ACCAAGAA GGCTAGCTACAACGA GTCTTTGT	20772
1603	CGUUCUUG G UCCAUCGU	3652	ACGATGGA GGCTAGCTACAACGA CAAGAACG	20773
1610	GGUCCAUC G UGAGUGGU	3653	ACCACTCA GGCTAGCTACAACGA GATGGACC	20774
1614	CAUCGUGA G UGGUUCAU	3654	ATGAACCA GGCTAGCTACAACGA TCAOGATG	20775
1617	CGUGAGUG G UUCAUGGA	3655	TCCATGAA GGCTAGCTACAACGA CACTCAGC	20776
1643	CCCUGGGA G CAGUGCUG	3656	CAGCACTG GGCTAGCTACAACGA TCCAAGGG	20777
1646	UUGGAGCA G UGUGGAA	3657	TTCCAGCA GGCTAGCTACAACGA TGCTCCAA	20778
1648	GGAGCAGU G CUGGAAGU	3658	ACTTCCAG GGCTAGCTACAACGA ACTGCTCC	20779
1655	UGCUGGAA G UACUGUGU	3659	ACACAGTA GGCTAGCTACAACGA TTCCAGCA	20780
1660	GAAGUACU G UGUGGAGG	3660	CCTCCACA GGCTAGCTACAACGA AGTACTTC	20781
1662	AGUACUGU G UGGAGGAA	3661	TTCTCCCA GGCTAGCTACAACGA ACAGTACT	20782
1680	AGAGAGAC G UUAUUGGA	3662	TCCATTAA GGCTAGCTACAACGA GTCTCTCT	20783
1689	UUAUUGGA G UUUGAGGA	3663	TCCTCAAA GGCTAGCTACAACGA TCCATTAA	20784
1705	AACCACAC G CCACGAAG	3664	CTTCGTGG GGCTAGCTACAACGA GTGTGGTT	20785
1713	GCCACGAA G CAGUCUGU	3665	ACAGACTG GGCTAGCTACAACGA TTCTGGC	20786
1716	ACGAAGCA G UCUGUGAU	3666	ATCACAGA GGCTAGCTACAACGA TGCTTCGT	20787
1720	AGCAGUCU G UGAUAGCA	3667	TGCTATCA GGCTAGCTACAACGA AGACTGCT	20788
1726	CUGUGAUA G CAUUGGGC	3668	GCCCAATG GGCTAGCTACAACGA TATCACAG	20789
1733	AGCAUUGG G CUCACAAG	3669	CTTGTTAG GGCTAGCTACAACGA CCAATGCT	20790
1747	AAGAGGGA G CUCUGCAU	3670	ATGCAGAG GGCTAGCTACAACGA TCCTCTTT	20791
1752	GGAGCUCU G CAUCAAGC	3671	GCTTGATG GGCTAGCTACAACGA AGAGCTCC	20792
1759	UGCAUCAA G CUUUGGCU	3672	AGCCAAAG GGCTAGCTACAACGA TTGATGCA	20793
1765	AAGCUUUG G CUGGAGCC	3673	GGCTCCAG GGCTAGCTACAACGA CAAAGCTT	20794
1771	UGGCUGGA G CCAUCCU	3674	AGGAATGG GGCTAGCTACAACGA TCCAGCCA	20795
1780	CCAUUCCU G UGGAAUUU	3675	AAATTCCA GGCTAGCTACAACGA AGGAATGG	20796
1793	AUUUCAA G CAACACUG	3676	CAGTGTG GGCTAGCTACAACGA TTGAAAT	20797
1801	GCAACACU G UCAAGUUG	3677	CAACTTGA GGCTAGCTACAACGA AGTGTGTC	20798
1806	ACUGUCAA G UUGACGUC	3678	GACGTCAA GGCTAGCTACAACGA TTGACAGT	20799
1812	AAGUUGAC G UCGGGUCA	3679	TGACCCGA GGCTAGCTACAACGA GTCAACTT	20800
1817	GACGUCGG G UCAUUGA	3680	TCAAATGA GGCTAGCTACAACGA CCGACGTC	20801
1827	CAUUGAA G UGUAGAGU	3681	ACTCTACA GGCTAGCTACAACGA TTCAAATG	20802
1829	UUUGAAGU G UAGAGUGA	3682	TCACTCTA GGCTAGCTACAACGA ACTTCAAA	20803
1834	AGUGUAGA G UGAAGAUG	3683	CATCTTCA GGCTAGCTACAACGA TCTACACT	20804
1851	GAAAAAUU G CAGUUGAA	3684	TTCAACTG GGCTAGCTACAACGA AATTTTTC	20805
1854	AAAUUGCA G UUGAAGGG	3685	CCCTTCAA GGCTAGCTACAACGA TGCAATTT	20806
1874	AACCUAUG G CGUCUGUU	3686	AACAGACG GGCTAGCTACAACGA CATAGGTT	20807
1876	CCUUGGC G UCUGUUA	3687	TGAACAGA GGCTAGCTACAACGA GCCATAGG	20808
1880	UGGCGUCU G UUCAAGG	3688	CCTTTGAA GGCTAGCTACAACGA AGACGCCA	20809
1888	GUUCAAG G CUUUAAG	3689	CTTGAAAG GGCTAGCTACAACGA CTTTGAAC	20810
1896	GCUUUCAA G UUUCUUGG	3690	CCAGAAA GGCTAGCTACAACGA TTGAAAGC	20811
1912	GGACUCCC G CAGACACA	3691	TGTGTCTG GGCTAGCTACAACGA GGGAGTCC	20812
1922	AGACACAG G UCACGGCA	3692	TGCCGTGA GGCTAGCTACAACGA CTGTGTCT	20813
1928	AGGUCACG G CACUGUGG	3693	CCACAGTG GGCTAGCTACAACGA CGTGACCT	20814
1933	ACGGCACU G UGGUGUUG	3694	CAACACCA GGCTAGCTACAACGA AGTGCCGT	20815
1936	GCACUGUG G UGUUGGAA	3695	TTCCAACA GGCTAGCTACAACGA CACAGTGC	20816
1938	ACUGUGGU G UUGGAAUU	3696	AATTCCAA GGCTAGCTACAACGA ACCACAGT	20817
1947	UUGGAAUU G CAGUACAC	3697	GTGTACTG GGCTAGCTACAACGA AATTCCAA	20818
1950	GAAUUGCA G UACACUGG	3698	CCAGTGTA GGCTAGCTACAACGA TGCAATTC	20819
1958	GUACACUG G CACGGAUG	3699	CATCCGTG GGCTAGCTACAACGA CAGTGTAC	20820
1973	UGGACCUU G CAAAGUUC	3700	GAACTTTG GGCTAGCTACAACGA AAGGTCCA	20821
1978	CUUGCAAA G UUCUAUC	3701	GATAGGAA GGCTAGCTACAACGA TTGCAAG	20822
1989	CCUAUCUC G UCAGUGGC	3702	GCCACTGA GGCTAGCTACAACGA GAGATAGG	20823
1993	UCUCGUGA G UGGCUUCA	3703	TGAAGCCA GGCTAGCTACAACGA TGACGAGA	20824
1996	CGUCAGUG G CUUCAUUG	3704	CAATGAAG GGCTAGCTACAACGA CACTGACG	20825
2016	GACCUAAC G CCAGUGGG	3705	CCCCTGG GGCTAGCTACAACGA GTTAGTTC	20826

2020	UAACGCCA G UGGGCAGA	3706	TCTGCCCA GGCTAGCTACAACGA TGGCGTTA	20827
2024	GCCAGUGG G CAGAUUGG	3707	CCAATCTG GGCTAGCTACAACGA CCACTGGC	20828
2032	GCAGAUUG G UCACUGUC	3708	GACAGTGA GGCTAGCTACAACGA CAATCTGC	20829
2038	UGGUCACU G UCAACCCU	3709	AGGGTTGA GGCTAGCTACAACGA AGTGACCA	20830
2050	ACCCUUUU G UUCAGUG	3710	CACTGAAA GGCTAGCTACAACGA AAAAGGGT	20831
2056	UUGUUUCA G UGGCCACG	3711	CGTGGCCA GGCTAGCTACAACGA TGAAACAA	20832
2059	UUUCAGUG G CCACGGCC	3712	GGCCGTGG GGCTAGCTACAACGA CACTGAAA	20833
2065	UGGCCACG G CCAACGCU	3713	AGCGTTGG GGCTAGCTACAACGA CGTGGCCA	20834
2071	CGGCCAAC G CUAAGGUC	3714	GACCTTAG GGCTAGCTACAACGA GTTGGCCG	20835
2077	ACGCUAAG G UCCUGAUU	3715	AATCAGGA GGCTAGCTACAACGA CTTAGCGT	20836
2119	CAUACAUA G UGGUGGGC	3716	GCCCACCA GGCTAGCTACAACGA TATGTATG	20837
2122	ACAUAGUG G UGGGCAGA	3717	TCTGCCCA GGCTAGCTACAACGA CACTATGT	20838
2126	AGUGGUGG G CAGAGGAG	3718	CTCCTCTG GGCTAGCTACAACGA CCACCACT	20839
2157	CACCAUUG G CACAAGUC	3719	GACTTGTG GGCTAGCTACAACGA CAATGGTG	20840
2163	UGGCACAA G UCUGGAAG	3720	CTTCCAGA GGCTAGCTACAACGA TTGTGCCA	20841
2171	GUCUGGAA G CAGCAUUG	3721	CAATGCTG GGCTAGCTACAACGA TTCCAGAC	20842
2174	UGGAAGCA G CAUUGGCA	3722	TGCCAATG GGCTAGCTACAACGA TGCTTCCA	20843
2180	CAGCAUUG G CAAAGCCU	3723	AGGCTTTG GGCTAGCTACAACGA CAATGCTG	20844
2185	UUGGCAA G CCUUUACA	3724	TGTAAGG GGCTAGCTACAACGA TTTGCCAA	20845
2209	UCAAGGA G CGCAGAGA	3725	TCTCTGCG GGCTAGCTACAACGA TCCTTTGA	20846
2211	AAAGGAGC G CAGAGACU	3726	AGTCTCTG GGCTAGCTACAACGA GCTCCTTT	20847
2221	AGAGACUA G CCGCUCUA	3727	TAGAGCGG GGCTAGCTACAACGA TAGTCTCT	20848
2224	GACUAGCC G CUCUAGGA	3728	TCCTAGAG GGCTAGCTACAACGA GGCTAGTC	20849
2239	GAGACACA G CUUGGGAC	3729	GTCCCAAG GGCTAGCTACAACGA TGTGTCTC	20850
2257	UUGGAUCA G UUGGAGGG	3730	CCCTCCAA GGCTAGCTACAACGA TGATCCAA	20851
2266	UUGGAGGG G UGUUCACC	3731	GGTGAACA GGCTAGCTACAACGA CCCTCCAA	20852
2268	GGAGGGGU G UUCACCUC	3732	GAGGTGAA GGCTAGCTACAACGA ACCCTCC	20853
2278	UCACCUCA G UUGGGAAG	3733	CTTCCCAA GGCTAGCTACAACGA TGAGGTGA	20854
2287	UUGGGAAG G CUGUCCAU	3734	ATGGACAG GGCTAGCTACAACGA CTTCCCAA	20855
2290	GGAGGCU G UCCAUCAA	3735	TTGATGGA GGCTAGCTACAACGA AGCCTTCC	20856
2299	UCCAUCAA G UGUUGGA	3736	TCCGAACA GGCTAGCTACAACGA TTGATGGA	20857
2301	CAUCAAGU G UUCGGAGG	3737	CCTCCGAA GGCTAGCTACAACGA ACTTGATG	20858
2311	UCGGAGGA G CAUUCGCG	3738	GCGGAATG GGCTAGCTACAACGA TCCTCCGA	20859
2318	AGCAUUCG G CUCACUGU	3739	ACAGTGA G GGCTAGCTACAACGA GGAATGCT	20860
2325	CGCUCACU G UUCGGAGG	3740	CCTCCGAA GGCTAGCTACAACGA AGTGAGCG	20861
2333	GUUCGGAG G CAUGUCCU	3741	AGGACATG GGCTAGCTACAACGA CTCGGAAC	20862
2337	GGAGGCAU G UCCUGGAU	3742	ATCCAGGA GGCTAGCTACAACGA ATGCCTCC	20863
2349	UGGAUAAC G CAAGGAU	3743	AATCCTTG GGCTAGCTACAACGA GTTATCCA	20864
2358	CAAGGAU G CUGGGGGC	3744	GCCCCAG GGCTAGCTACAACGA AATCCTTG	20865
2365	UGCUGGGG G CUCUCCTG	3745	CAGGAGAG GGCTAGCTACAACGA CCCCAGCA	20866
2373	GCUCUCU G UUGUGGAU	3746	ATCCACAA GGCTAGCTACAACGA AGGAGAGC	20867
2376	CUCUGU G UGGAUGGG	3747	CCCATCCA GGCTAGCTACAACGA AACAGGAG	20868
2384	GUGGAUGG G CAUCAAU	3748	CATTGATG GGCTAGCTACAACGA CCATCCAC	20869
2392	GCAUCAU G CUCUGAU	3749	ATCACGAG GGCTAGCTACAACGA ATTGATGC	20870
2396	CAAUGCUC G UGAUAGGU	3750	ACCTATCA GGCTAGCTACAACGA GAGCATTG	20871
2403	CGUGAUAG G UCCAUAGC	3751	GCTATGGA GGCTAGCTACAACGA CTATCACG	20872
2410	GGUCCAUA G CUCUCACG	3752	CGTGAGAG GGCTAGCTACAACGA TATGGACC	20873
2418	GCUCUCAC G UUCUCGCG	3753	GCGAGAAA GGCTAGCTACAACGA GTGAGAGC	20874
2425	CGUUCUC G CAGUUGGA	3754	TCCAAC TG GGCTAGCTACAACGA GAGAAACG	20875
2428	UUCUCGCA G UUGGAGGA	3755	TCCTCCAA GGCTAGCTACAACGA TGCGAGAA	20876
2437	UUGGAGGA G UUCUGCUC	3756	GAGCAGAA GGCTAGCTACAACGA TCCTCCAA	20877
2442	GGAGUUCU G CUCUCCU	3757	AGGAAGAG GGCTAGCTACAACGA AGAATCC	20878
2455	UCCUCUCC G UGAACGUG	3758	CACGTTCA GGCTAGCTACAACGA GGAGAGGA	20879
2461	CCGUGAAC G UGCACGCU	3759	AGCGTGCA GGCTAGCTACAACGA GTTCACGG	20880
2463	GUGAACGU G CACGUGA	3760	TCAGCGTG GGCTAGCTACAACGA ACCTTCAC	20881
2467	ACGUGCAC G CUGACACU	3761	AGTGTGAG GGCTAGCTACAACGA GTGCACGT	20882
2478	GACACUGG G UGUGCCAU	3762	ATGSCACA GGCTAGCTACAACGA CCAGTGTC	20883
2480	CACUGGGU G UGCCAUAG	3763	CTATGGCA GGCTAGCTACAACGA ACCCAGTG	20884
2482	CUGGGUGU G CCAUAGAC	3764	GTCTATGG GGCTAGCTACAACGA ACACCCAG	20885
2495	AGACAUCA G CCGGCAAG	3765	CTTGCCGG GGCTAGCTACAACGA TGATGTCT	20886
2499	AUCAGCCG G CAAGAGCU	3766	AGCTCTTG GGCTAGCTACAACGA CGGCTGAT	20887
2505	CGGCAAGA G CUGAGAUG	3767	CATCTCAG GGCTAGCTACAACGA TCTTGCCG	20888

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2513	GCUGAGAU G UGGAAGUG	3768	CACCTCCA GGCTAGCTACAACGA ATCTCAGC	20889
2519	AUGUGGAA G UGGAGUGU	3769	ACACTCCA GGCTAGCTACAACGA TTCCACAT	20890
2524	GAAGUGGA G UGUUCAUA	3770	TATGAACA GGCTAGCTACAACGA TCCACTTC	20891
2526	AGUGGAGU G UUCAUACA	3771	TGTATGAA GGCTAGCTACAACGA ACTCCACT	20892
2542	ACAAUGAU G UGGAGGCU	3772	AGCCTCCA GGCTAGCTACAACGA ATCATTGT	20893
2548	AUGUGGAG G CUUGGAUG	3773	CATCCAAG GGCTAGCTACAACGA CTCCACAT	20894
2562	AUGGACCG G UACAAGUA	3774	TACTTGTA GGCTAGCTACAACGA CGGTCCAT	20895
2568	CGGUACAA G UAUUACCC	3775	GGGTAATA GGCTAGCTACAACGA TTGTACCG	20896
2583	CCUGAAAC G CCAAGAGG	3776	CCTTGTGG GGCTAGCTACAACGA GTTTCAGG	20897
2591	GCCACAAG G CCUAGCCA	3777	TGGCTAGG GGCTAGCTACAACGA CTTGTGGC	20898
2596	AAGGCCUA G CCAAGAUC	3778	GATCTTGG GGCTAGCTACAACGA TAGGCCTT	20899
2614	UUCAGAAA G CUCAUAAG	3779	CTTATGAG GGCTAGCTACAACGA TTTCTGAA	20900
2629	AGGAAGGA G UGUGCGGU	3780	ACCGCACA GGCTAGCTACAACGA TCCTTCCT	20901
2631	GAAGGAGU G UGCGGUCU	3781	AGACCGCA GGCTAGCTACAACGA ACTCCTTC	20902
2633	AGGAGUGU G CGGUCUAC	3782	GTAGACCG GGCTAGCTACAACGA ACCTCCTT	20903
2636	AGUGUGCG G UCUACGAU	3783	ATCGTAGA GGCTAGCTACAACGA CGCACACT	20904
2647	UACGAUCA G UUUCCAGA	3784	TCTGGAAA GGCTAGCTACAACGA TGATCGTA	20905
2661	AGACUGGA G CAUCAAU	3785	ATTTGATG GGCTAGCTACAACGA TCCAGTCT	20906
2670	CAUCAAAU G UGGGAAGC	3786	GCTTCCCA GGCTAGCTACAACGA ATTTGATG	20907
2677	UGUGGGAA G CAGUGAAG	3787	CTTCACTG GGCTAGCTACAACGA TTCCACA	20908
2680	GGGAAGCA G UGAAGGAC	3788	GTCCTTCA GGCTAGCTACAACGA TGCTTCCC	20909
2691	AAGGACGA G CUGAACAC	3789	GTGTTTCA GGCTAGCTACAACGA TCGTCTTT	20910
2717	GGAGAAUG G UGUGGACC	3790	GGTCCACA GGCTAGCTACAACGA CATTTCTC	20911
2719	AGAAUGGU G UGGACCUU	3791	AAGGTCCA GGCTAGCTACAACGA ACCATTCT	20912
2729	GGACCUUA G UGUCGUGG	3792	CCACGACA GGCTAGCTACAACGA TAAGGTCC	20913
2731	ACCUUAGU G UCGUGGUU	3793	AACCACGA GGCTAGCTACAACGA ACTAAGGT	20914
2734	UAGUGUC G UGUUGAG	3794	CTCAACCA GGCTAGCTACAACGA GACACTAA	20915
2737	GUGUCGUG G UUGAGAAA	3795	TTTCTCAA GGCTAGCTACAACGA CACGACAC	20916
2757	GAGGGAU G UACAAGUC	3796	GACTTGTA GGCTAGCTACAACGA ATTCCTTC	20917
2763	AUGUACAA G UCAGCACC	3797	GGTGCTGA GGCTAGCTACAACGA TTGTACAT	20918
2767	ACAAGUCA G CACCUAAA	3798	TTTAGGTG GGCTAGCTACAACGA TGACTTGT	20919
2777	ACCUAAAC G CCUCACCG	3799	CGGTGAGG GGCTAGCTACAACGA GTTTAGGT	20920
2785	GCCUCACC G CCACCACG	3800	CGTGGTGG GGCTAGCTACAACGA GGTGAGGC	20921
2810	GGAAAUUG G CUGGAAGG	3801	CCTTCCAG GGCTAGCTACAACGA CAATTTCC	20922
2818	GCUGGAAG G CCUGGGGA	3802	TCCCAGG GGCTAGCTACAACGA CTTCCAGC	20923
2831	GGGAAAGA G UAUUUUUA	3803	ATAAAATA GGCTAGCTACAACGA TCTTTCCC	20924
2842	UUUUAUUU G CACCAGAA	3804	TTCTGGTG GGCTAGCTACAACGA AAATAAAA	20925
2854	CAGAACUC G CCAACAAC	3805	GTGTTTGG GGCTAGCTACAACGA GAGTTCTG	20926
2869	ACACCUUU G UGGUUGAU	3806	ATCAACCA GGCTAGCTACAACGA AAAGGTGT	20927
2872	CCUUGUG G UUGAUGGU	3807	ACCATCAA GGCTAGCTACAACGA CACAAAGG	20928
2879	GGUUGAUG G UCCGAGAG	3808	TCTCCGGA GGCTAGCTACAACGA CATCAACC	20929
2897	CAAGGAAU G UCCGACUC	3809	GAGTCGGA GGCTAGCTACAACGA ATTCCTTG	20930
2912	UCAGAAUC G CGCUUGGA	3810	TCCAAGCG GGCTAGCTACAACGA GATTCTGA	20931
2914	AGAAUCGC G CUUGGAAU	3811	ATTCCAAG GGCTAGCTACAACGA GCGATTCT	20932
2924	UUGGAAUA G CUUAGAAG	3812	CTTCTAAG GGCTAGCTACAACGA TATTCCAA	20933
2932	GCUAGAA G UGGAGGAU	3813	ATCCTCCA GGCTAGCTACAACGA TTCTAAGC	20934
2951	UGGAUUUG G UCUCACCA	3814	TGGTGAGA GGCTAGCTACAACGA CAAATCCA	20935
2960	UCUCACCA G CACUCGGA	3815	TCCGAGTG GGCTAGCTACAACGA TGGTGAGA	20936
2970	ACUCGGAU G UUCUGGAA	3816	TTCAAGGA GGCTAGCTACAACGA ATCCGAGT	20937
2980	UCCUGAAG G UCAGAGAG	3817	CTCTCTGA GGCTAGCTACAACGA CTTCAGGA	20938
2990	CAGAGAGA G CAACACAA	3818	TTGTGTGT GGCTAGCTACAACGA TCTCTCTG	20939
3005	AACUGAAU G UGACUCGA	3819	TCGAGTCA GGCTAGCTACAACGA ATTCAGTT	20940
3028	UUGGAACG G CUGUCAAG	3820	CTTGACAG GGCTAGCTACAACGA CGTTCCAA	20941
3031	GAACGGCU G UCAAGAAC	3821	GTTCTTGA GGCTAGCTACAACGA AGCCGTTT	20942
3046	ACAACUUG G CGAUCCAC	3822	GTGGATCG GGCTAGCTACAACGA CAAGTTGT	20943
3056	GAUCCACA G UGACCUGU	3823	ACAGGTCA GGCTAGCTACAACGA TGTGGATC	20944
3063	AGUGACCU G UCCUAUUG	3824	CAATAGGA GGCTAGCTACAACGA AGGTCACT	20945
3080	GAUUGAAA G CAGGCUCA	3825	TGAGCCTG GGCTAGCTACAACGA TTTCATC	20946
3084	GAAAGCAG G CUCAAUGA	3826	TCATTGAG GGCTAGCTACAACGA CTGCTTTC	20947
3096	AAUGAUAC G UGGAAGCU	3827	AGCTTCCA GGCTAGCTACAACGA GTATCATT	20948
3102	ACGUGGAA G CUUGAAAG	3828	CTTTCAAG GGCTAGCTACAACGA TTCCACGT	20949
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACTG GGCTAGCTACAACGA CCTTCAA	20950

3115	AAAGGGCA G UUCUGGGU	3830	ACCCAGAA GGCTAGCTACAACGA TGCCCTTT	20951
3122	AGUUCUGG G UGAAGUCA	3831	TGACTTCA GGCTAGCTACAACGA CCAGAACT	20952
3127	UGGGUGAA G UCAAAUCA	3832	TGATTTGA GGCTAGCTACAACGA TTCACCCA	20953
3137	CAAAUCAU G UACGUGGC	3833	GCCACGTA GGCTAGCTACAACGA ATGATTTG	20954
3141	UCAUGUAC G UGGCCUGA	3834	TCAGGCCA GGCTAGCTACAACGA GTACATGA	20955
3144	UGUACGUG G CCUGAGAC	3835	GTCTCAGG GGCTAGCTACAACGA CACGTACA	20956
3153	CCUGAGAC G CAUACCUU	3836	AAGGTATG GGCTAGCTACAACGA GTCTCAGG	20957
3162	CAUACCUU G UGGGGCGA	3837	TCGCCCCA GGCTAGCTACAACGA AAGGTATG	20958
3167	CUUGUGGG G CGAUGGAA	3838	TTCCATCG GGCTAGCTACAACGA CCACAAG	20959
3185	CCUUGAGA G UGACUUGA	3839	TCAAGTCA GGCTAGCTACAACGA TCTCAAGG	20960
3202	UAAUACCA G UCACACUG	3840	CAGTGTGA GGCTAGCTACAACGA TGGTATTA	20961
3211	UCACACUG G CGGGACCA	3841	TGGTCCCG GGCTAGCTACAACGA CAGTGTGA	20962
3224	ACCACGAA G CAAUCACA	3842	TGTGATTG GGCTAGCTACAACGA TTCGTGGT	20963
3246	AGACCUGG G UACAAGAC	3843	GTCTTGTA GGCTAGCTACAACGA CCAGGTCT	20964
3266	AAACCAGG G CCCAUGGG	3844	CCCATGGG GGCTAGCTACAACGA CCTGGTTT	20965
3281	GGACGAAG G CCGGGUAG	3845	CTACCCCG GGCTAGCTACAACGA CTTCTGCC	20966
3286	AAGGCCGG G UAGAGAUU	3846	AATCTCTA GGCTAGCTACAACGA CCGGCCCT	20967
3308	CGAUUACU G CCCAGGAA	3847	TTCTGGG GGCTAGCTACAACGA AGTAATCG	20968
3322	GAACUACG G UCACCCUG	3848	CAGGGTGA GGCTAGCTACAACGA CGTAGTTC	20969
3332	CACCUGA G UGAGAGCU	3849	AGCTCTCA GGCTAGCTACAACGA TCAGGTG	20970
3338	GAGUGAGA G CUGCGGAC	3850	GTCCGCAG GGCTAGCTACAACGA TCTCACTC	20971
3341	UGAGAGCU G CGGACACC	3851	GGTGTCCG GGCTAGCTACAACGA AGCTCTCA	20972
3350	CGGACACC G UGGACCUG	3852	CAGGTCCA GGCTAGCTACAACGA GGTGTCCG	20973
3358	GUGGACCU G CCACUCGC	3853	GCGAGTGG GGCTAGCTACAACGA AGGTCCAC	20974
3365	UGCCACUC G CACCACCA	3854	TGGTGGTG GGCTAGCTACAACGA GAGTGGCA	20975
3380	CACAGAGA G CGGAAAGU	3855	ACTTTCCG GGCTAGCTACAACGA TCTCTGTG	20976
3387	AGCGGAAA G UUGAUUAC	3856	GTTATCAA GGCTAGCTACAACGA TTTCCGCT	20977
3402	ACAGAUUG G UGUGCAG	3857	CTGCAGCA GGCTAGCTACAACGA CAATCTGT	20978
3404	AGAUUGGU G CUGCAGGA	3858	TCCTGCAG GGCTAGCTACAACGA ACCAATCT	20979
3407	UUGGUGCU G CAGGAGCU	3859	AGTCTCTG GGCTAGCTACAACGA AGCACCAG	20980
3413	CUGCAGGA G CUGCACC	3860	AGGTGCAG GGCTAGCTACAACGA TCCTGCAG	20981
3416	CAGGAGCU G CACCUUAC	3861	GTAAGGTG GGCTAGCTACAACGA AGTCTCTG	20982
3432	CCACCACU G CGCUACCA	3862	TGGTAGCG GGCTAGCTACAACGA AGTGGTGG	20983
3434	ACCACUGC G CUACCAA	3863	TTTGGTAG GGCTAGCTACAACGA GCAGTGGT	20984
3449	AACUGACA G CGGCUGUU	3864	AACAGCCG GGCTAGCTACAACGA TGTCAGTT	20985
3452	UGACAGCG G CUGUUGGU	3865	ACCAACAG GGCTAGCTACAACGA CGCTGTCA	20986
3455	CAGCGGCU G UUGGUAUG	3866	CATACCAA GGCTAGCTACAACGA AGCGCTG	20987
3459	GGCUUUG G UAUGGUAU	3867	ATACCATA GGCTAGCTACAACGA CAACAGCC	20988
3464	UUGGUAUG G UAUGGAGA	3868	TCTCCATA GGCTAGCTACAACGA CATACCAA	20989
3505	AGACCCUC G UGCAGUCA	3869	TGACTGCA GGCTAGCTACAACGA GAGGGTCT	20990
3507	ACCCUCGU G CAGUCACA	3870	TGTGACTG GGCTAGCTACAACGA ACGAGGGT	20991
3510	CUCGUGCA G UCACAAGU	3871	ACTGTGTA GGCTAGCTACAACGA TGCACGAG	20992
3517	AGUCACAA G UGAAUGCU	3872	AGCATTCA GGCTAGCTACAACGA TTGTGACT	20993
3523	AAGUGAAU G CUUAUAAU	3873	ATTATAAG GGCTAGCTACAACGA ATTCACTT	20994
3532	CUUAUAAU G CUGAUUUG	3874	CATATCAG GGCTAGCTACAACGA ATTATAAG	20995
3555	CCUUUUCA G UUGGGCCU	3875	AGGCCCAA GGCTAGCTACAACGA TGAAAAGG	20996
3560	UCAGUUGG G CCUUCUGG	3876	CCAGAAGG GGCTAGCTACAACGA CCAACTGA	20997
3568	GCCUUCUG G UCGUGUUC	3877	GAACACGA GGCTAGCTACAACGA CAGAAGGC	20998
3571	UUCUGGUC G UGUUCUUG	3878	CAAGAACA GGCTAGCTACAACGA GACCAGAA	20999
3573	CUGGUCGU G UUCUUGGC	3879	GCCAAGAA GGCTAGCTACAACGA ACGACCAG	21000
3580	UGUUCUUG G CCACCCAG	3880	CTGGGTGG GGCTAGCTACAACGA CAAGAACA	21001
3592	CCCAGGAG G UCCUUCGC	3881	GCGAAGGA GGCTAGCTACAACGA CTCCTGGG	21002
3599	GGUCCUUC G CAAGAGGU	3882	ACCTCTTG GGCTAGCTACAACGA GAAGGACC	21003
3606	CGCAAGAG G UGGACAGC	3883	GCTGTCCA GGCTAGCTACAACGA CTCCTGCG	21004
3613	GGUGGACA G CCAAGAUC	3884	GATCTTGG GGCTAGCTACAACGA TGTCCACC	21005
3623	CAAGAUCA G CAUGCCAG	3885	CTGGCATG GGCTAGCTACAACGA TGATCTTG	21006
3627	AUCAGCAU G CCAGCUAU	3886	ATAGCTGG GGCTAGCTACAACGA ATGCTGAT	21007
3631	GCAUGCCA G CUUACUG	3887	CAGTATAG GGCTAGCTACAACGA TGGCATGC	21008
3643	UACUGAUU G CUCUGCUA	3888	TAGCAGAG GGCTAGCTACAACGA AATCAGTA	21009
3648	AUUGCUCU G CUAGUCCU	3889	AGGACTAG GGCTAGCTACAACGA AGAGCAAT	21010
3652	CUCUGCUA G UCCUGGUG	3890	CACCAGGA GGCTAGCTACAACGA TAGCAGAG	21011
3658	UAGUCCUG G UGUUUGGG	3891	CCCAAACA GGCTAGCTACAACGA CAGGACTA	21012

Table VI

3660	GUCCUGGU G UUUGGGG	3892	CCCCAAA GGCTAGCTACAACGA ACCAGGAC	21013
3668	GUUUGGGG G CAUUAUU	3893	AAGTAATG GGCTAGCTACAACGA CCCCAC	21014
3685	ACACUGAU G UGUUACGC	3894	GGCTAACA GGCTAGCTACAACGA ATCAGTGT	21015
3687	ACUGAUGU G UUACGCUA	3895	TAGCGTAA GGCTAGCTACAACGA ACATCAGT	21016
3692	UGUGUUAC G CUAUGUCA	3896	TGACATAG GGCTAGCTACAACGA GTAACACA	21017
3697	UACGCUAU G UCAUCUUG	3897	CAAGATGA GGCTAGCTACAACGA ATAGCGTA	21018
3706	UCAUCUUG G UGGGGGCA	3898	TGCCCCCA GGCTAGCTACAACGA CAAGATGA	21019
3712	UGGUGGGG G CAGCUUUC	3899	GAAAGCTG GGCTAGCTACAACGA CCCCACCA	21020
3715	UGGGGGCA G CUUUCGCA	3900	TGCGAAAG GGCTAGCTACAACGA TGCCCCCA	21021
3721	CAGCUUUC G CAGAAUCU	3901	AGATTCTG GGCTAGCTACAACGA GAAAGCTG	21022
3745	GAGGAGAC G UGGUACAC	3902	GTGTACCA GGCTAGCTACAACGA GTCTCTCT	21023
3748	GAGACGUG G UACACUUG	3903	CAAGTGTA GGCTAGCTACAACGA CACGTCTC	21024
3757	UACACUUG G CGCUCAUG	3904	CATGAGCG GGCTAGCTACAACGA CAAGTGTA	21025
3759	CACUUGGC G CUCAUGGC	3905	GCCATGAG GGCTAGCTACAACGA GCCAAGTG	21026
3766	CGCUCAUG G CGACCUUC	3906	GAAGTCTG GGCTAGCTACAACGA CATGAGCG	21027
3787	UACAACCA G UGUUUAUG	3907	CATAAACA GGCTAGCTACAACGA TGGTGTGA	21028
3789	CAACCAGU G UUAUUGGU	3908	ACCATAAA GGCTAGCTACAACGA ACTGGTTG	21029
3796	UGUUAUG G UGGCAUCG	3909	CGATGCCA GGCTAGCTACAACGA CATAAACA	21030
3799	UUAUGGUG G CAUCGUUU	3910	AAACGATG GGCTAGCTACAACGA CACCATAA	21031
3804	GUGGCAUC G UUUCUCAA	3911	TTGAGAAA GGCTAGCTACAACGA GATGCCAC	21032
3814	UUCUCAA G CGAGAUGG	3912	CCATCTCG GGCTAGCTACAACGA TTTGAGAA	21033
3843	AACAUUUU G UUGAUGUU	3913	AACATCAA GGCTAGCTACAACGA AAAATGTT	21034
3849	UUGUUGAU G UUGGCGGC	3914	GCCGCCAA GGCTAGCTACAACGA ATCAACAA	21035
3853	UGAUGUUG G CGGCUUUU	3915	AACAGCCG GGCTAGCTACAACGA CAACATCA	21036
3856	UGUUGGCG G CUGUUUUC	3916	GAAAACAG GGCTAGCTACAACGA CGCCAACA	21037
3859	UGGCGGCU G UUUUCUUU	3917	AAAGAAA GGCTAGCTACAACGA AGCCGCCA	21038
3874	UUCAAUUG G CUUAUCAC	3918	GTGATAAG GGCTAGCTACAACGA CATTTGAA	21039
3886	AUCACGAU G CCCGCCAA	3919	TTGGCGGG GGCTAGCTACAACGA ATCGTGAT	21040
3890	CGAUGCCC G CCAAUUC	3920	GAATTTGG GGCTAGCTACAACGA GGGCATCG	21041
3900	CAAAUUCU G CUCUGGGA	3921	TCCCAGAG GGCTAGCTACAACGA AGAATTTG	21042
3919	UCCUGAU G UGUUGAAU	3922	ATTCAACA GGCTAGCTACAACGA ATCAGGGA	21043
3921	CCUGAUGU G UUGAAUUC	3923	GAATTCAG GGCTAGCTACAACGA ACATCAGG	21044
3934	AUUCACUG G CGGUAGCU	3924	AGCTACCG GGCTAGCTACAACGA CAGTGAAT	21045
3937	CACUGGCG G UAGCUUGG	3925	CCAAGCTA GGCTAGCTACAACGA CGCCAGTG	21046
3940	UGGCGGUA G CUUGGAUG	3926	CATCCAAG GGCTAGCTACAACGA TACCGCCA	21047
3958	UACUGAGA G CCAUAACA	3927	TGTTATGG GGCTAGCTACAACGA TCTCAGTA	21048
3985	CAUCAAAC G UGUUGUUU	3928	AACAACCA GGCTAGCTACAACGA GTTTGATG	21049
3988	CAAACGUG G UUGUCCG	3929	CGGAACAA GGCTAGCTACAACGA CAGGTTTG	21050
3991	ACGUGGUU G UUCGCGUG	3930	CAGCGGAA GGCTAGCTACAACGA AACCACGT	21051
3996	GUUGUUC G CUGCUAGC	3931	GCTAGCAG GGCTAGCTACAACGA GGAACAA	21052
3999	GUUCCGCU G CUAGCCCU	3932	AGGGCTAG GGCTAGCTACAACGA AGCGGAAC	21053
4003	CGCUGCUA G CCCUGCUA	3933	TAGCAGGG GGCTAGCTACAACGA TAGCAGCG	21054
4008	CUAGCCCU G CUAACACC	3934	GGTGTTAG GGCTAGCTACAACGA AGGGCTAG	21055
4020	ACACCCGG G CUGAGAUG	3935	CATCTCAG GGCTAGCTACAACGA CCGGCTGT	21056
4028	GCUGAGAU G CUUGAAUC	3936	GATTCAAG GGCTAGCTACAACGA ATCTCAGC	21057
4042	AUCUGGAU G UGUACAGG	3937	CCTGTACA GGCTAGCTACAACGA ATCCAGAT	21058
4044	CUGGAUGU G UACAGGAU	3938	ATCTGTGA GGCTAGCTACAACGA ACATCCAG	21059
4056	AGGAUACU G CUGUUGAU	3939	ATCAACAG GGCTAGCTACAACGA AGTATCCT	21060
4059	AUACUGCU G UUGAUGGU	3940	ACCATCAA GGCTAGCTACAACGA AGCAGTAT	21061
4066	UGUUGAUG G UCGGAUA	3941	TATTCGGA GGCTAGCTACAACGA CATCAACA	21062
4076	CGGAUAUG G CAGCUUGA	3942	TCAAGCTG GGCTAGCTACAACGA CTATTCCG	21063
4079	AAUAGGCA G CUUGAUCA	3943	TGATCAAG GGCTAGCTACAACGA TGCTATT	21064
4100	GAAGAGGA G UGCAGCUG	3944	CAGCTGCA GGCTAGCTACAACGA TCCTCTTC	21065
4102	AGAGGAGU G CAGCUGCA	3945	TGCAGCTG GGCTAGCTACAACGA ACTCTCT	21066
4105	GGAGUGCA G CUGCAAAA	3946	TTTTGCAG GGCTAGCTACAACGA TGCACTCC	21067
4108	GUGCAGCU G CAAAAAG	3947	CTTTTTTG GGCTAGCTACAACGA AGCTGCAC	21068
4123	AGAAAGGA G CAAGUCUG	3948	CAGACTTG GGCTAGCTACAACGA TCCTTTCT	21069
4127	AGGAGCAA G UCUGCUAU	3949	ATAGCAGA GGCTAGCTACAACGA TTGCTCCT	21070
4131	GCAAGUCU G CUAUGCUU	3950	AAGCATAG GGCTAGCTACAACGA AGACTTGC	21071
4136	UCUGCUAU G CUUGGCUC	3951	GAGCCAAG GGCTAGCTACAACGA ATAGCAGA	21072
4141	UAUGCUUG G CUCUAGCC	3952	GGCTAGAG GGCTAGCTACAACGA CAAGCATA	21073
4147	UGGCUCUA G CCUCAACA	3953	TGTTGAGG GGCTAGCTACAACGA TAGAGCCA	21074

4180	UGAUCCUU G CUGCUGGA	3954	TCCAGCAG GGCTAGCTACAACGA AAGGATCA	21075
4183	UCCUUGCU G CUGGACUG	3955	CAGTCCAG GGCTAGCTACAACGA AGCAAGGA	21076
4195	GACUGAUU G CAUGUGAU	3956	ATCAGATG GGCTAGCTACAACGA AATCAGTC	21077
4199	GAUUGCAU G UGAUCCCA	3957	TGGGATCA GGCTAGCTACAACGA ATGCAATC	21078
4211	UCCCAACC G UAAACGCG	3958	CGCGTTTA GGCTAGCTACAACGA GGTGGGA	21079
4217	CCGUAAC G CGGAUGGC	3959	GCCATCCG GGCTAGCTACAACGA GTTACGG	21080
4224	CGCGGAUG G CCCGCAAC	3960	GTTGCGGG GGCTAGCTACAACGA CATCCGCG	21081
4228	GAUGGCCC G CAACUGAA	3961	TTCAAGTT GGCTAGCTACAACGA GGGCCATC	21082
4237	CAACUGAA G UGAUGACA	3962	TGTCATCA GGCTAGCTACAACGA TTCAGTTG	21083
4246	UGAUGACA G CUGUCGCG	3963	GCCGACAG GGCTAGCTACAACGA TGTCATCA	21084
4249	UGACAGCU G UCGGCCUA	3964	TAGGCCGA GGCTAGCTACAACGA AGTGTCTA	21085
4253	AGCUGUCG G CCUAAUGU	3965	ACATTAGG GGCTAGCTACAACGA CGACAGCT	21086
4260	GGCCUAAU G UUUGCCAU	3966	ATGGCAAA GGCTAGCTACAACGA ATTAGGCC	21087
4264	UAAUGUUU G CCAUCGUC	3967	GACGATGG GGCTAGCTACAACGA AAACATTA	21088
4270	UUGCCAUC G UCGGAGGG	3968	CCCTCCGA GGCTAGCTACAACGA GATGGCAA	21089
4278	GUCGGAGG G CUGGCAGA	3969	TCTGCCAG GGCTAGCTACAACGA CCTCCGAC	21090
4282	GAGGGCUG G CAGAGCUU	3970	AAGCTCTG GGCTAGCTACAACGA CAGCCCTC	21091
4287	CUGGCAGA G CUUGACAU	3971	ATGTCAAG GGCTAGCTACAACGA TCTGCCAG	21092
4306	ACUCCAUG G CCAUUGCA	3972	TGGAATGG GGCTAGCTACAACGA CATGGAGT	21093
4324	UGACUUAU G CGGGGCUU	3973	GAGCCCCG GGCTAGCTACAACGA GATAGTCA	21094
4329	AUCGCGGG G CUCAUGUU	3974	AACATGAG GGCTAGCTACAACGA CCCGCGAT	21095
4335	GGGCUCAU G UUUGCUCG	3975	GCAGCAA GGCTAGCTACAACGA ATGAGCCC	21096
4339	UCAUGUUU G CUGCUUUC	3976	GAAAGCAG GGCTAGCTACAACGA AAACATGA	21097
4342	UGUUUGCU G CUUUCGUG	3977	CACGAAAG GGCTAGCTACAACGA AGCAAACA	21098
4348	CUGCUUUC G UGAUUUCU	3978	AGAAATCA GGCTAGCTACAACGA GAAAGCAG	21099
4374	ACAGAUAU G UGGAUUGA	3979	TCAATCCA GGCTAGCTACAACGA ATATCTGT	21100
4390	AGAGAACG G CGGACAUU	3980	AATGTCCG GGCTAGCTACAACGA CGTTCTCT	21101
4409	CUGGGAAA G UGAUGCAG	3981	CTGCATCA GGCTAGCTACAACGA TTTCCGAG	21102
4414	AAAGUGAU G CAGAAAUU	3982	AATTTCTG GGCTAGCTACAACGA ATCATT	21103
4427	AAUACAG G CUCGAGCG	3983	CGCTCGAG GGCTAGCTACAACGA CTGTAATT	21104
4433	AGGCUCGA G CGAAAGAG	3984	CTCTTTCC GGCTAGCTACAACGA TCGAGCCT	21105
4441	GCGAAAGA G UUGAUGUG	3985	CACATCAA GGCTAGCTACAACGA TCTTTCCG	21106
4447	GAGUUGAU G UGCGGCUU	3986	AAGCCGCA GGCTAGCTACAACGA ATCACTC	21107
4449	GUUGAUGU G CGGCUUGA	3987	TCAAGCCG GGCTAGCTACAACGA ACATCAAC	21108
4452	GAUGUGCG G CUUGAUGA	3988	TCATCAAG GGCTAGCTACAACGA CGCACATC	21109
4476	AACUUGCA G CUCAUGAA	3989	TTCATGAG GGCTAGCTACAACGA TGGAAGTT	21110
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGTG GGCTAGCTACAACGA TCCTGGAT	21111
4515	AUAUGGAU G CUCAGAAU	3991	ATTCTGAG GGCTAGCTACAACGA ATCCATAT	21112
4525	UCAGAAUG G UCUGUCUC	3992	GAGACAGA GGCTAGCTACAACGA CATTTCTG	21113
4529	AAUGGUCU G UCUCGCGA	3993	TCGCGAGA GGCTAGCTACAACGA AGACCATT	21114
4534	UCUGUCUC G CGAUUAGU	3994	ACTAATCG GGCTAGCTACAACGA GAGACAGA	21115
4541	CGCGAUUA G UGCGUACA	3995	TGTACGCA GGCTAGCTACAACGA TAATCGCG	21116
4543	CGAUUAGU G CGUACACC	3996	GGTGTACG GGCTAGCTACAACGA ACTAATCG	21117
4545	AUUGAGUC G UACACCCC	3997	GGGGTGTA GGCTAGCTACAACGA GCACATA	21118
4558	CCCCUGG G CAAUCUUG	3998	CAAGATTG GGCTAGCTACAACGA CCAGGGGG	21119
4566	GCAUUCUU G CCCUCAGU	3999	ACTGAGGG GGCTAGCTACAACGA AAGATTGC	21120
4573	UGCCCUCA G UAGUUGGA	4000	TCCAACCT GGCTAGCTACAACGA TGAGGGCA	21121
4576	CCUCAGUA G UUGGAUUU	4001	AAATCCAA GGCTAGCTACAACGA TACTGAGG	21122
4616	GAGAGGAG G CGUGUUGU	4002	ACAACACG GGCTAGCTACAACGA CTCCTCTC	21123
4618	GAGGAGGC G UGUUGUGG	4003	CCACAACA GGCTAGCTACAACGA GCCTCCTC	21124
4620	GGAGGCGU G UUGUGGGA	4004	TCCACAAA GGCTAGCTACAACGA ACGCTTCC	21125
4623	GGCGUGUU G UGGGACAC	4005	TGTGCCCA GGCTAGCTACAACGA AACACGCC	21126
4647	CCAAAGGA G UACAAAAA	4006	TTTGTGTA GGCTAGCTACAACGA TCCTTTGG	21127
4673	GACCACCG G CGUCUACA	4007	TGTAGACG GGCTAGCTACAACGA CGGTGGTC	21128
4675	CCACCGGC G UCUCACAGG	4008	CCTGTAGA GGCTAGCTACAACGA GCGGTTGG	21129
4694	CAUGACUC G UGGGCGUC	4009	GCAGCCCA GGCTAGCTACAACGA GAGTCATG	21130
4698	ACUCGUGG G CUGCUCGG	4010	CGAGGACG GGCTAGCTACAACGA CCACGAGT	21131
4701	CGUGGCGU G CUCGGCAG	4011	CTGCCGAG GGCTAGCTACAACGA AGCCCACG	21132
4706	GCUGCUCG G CAGUUAUC	4012	GATAACTG GGCTAGCTACAACGA CGAGCAGC	21133
4709	GCUCGGCA G UUAUCAAG	4013	CTTGATAA GGCTAGCTACAACGA TGCCGAGC	21134
4717	GUUAUCAA G CAGGAGCG	4014	CGTCTCTG GGCTAGCTACAACGA TTGATAAC	21135
4723	AAGCAGGA G CGGGCGUG	4015	CACGCCCG GGCTAGCTACAACGA TCCTGCTT	21136

4727	AGGAGCGG G CGUGAUGG	4016	CCATCACG GGCTAGCTACAACGA CCGCTCCT	21137
4729	GAGCGGGC G UGAUGGUU	4017	AACCATCA GGCTAGCTACAACGA GCCCGCTC	21138
4735	GCGUGAUG G UUGAAGGU	4018	ACCTTCAA GGCTAGCTACAACGA CATCACGC	21139
4742	GGUUGAAG G UGUUUUCC	4019	GGAAAACA GGCTAGCTACAACGA CTCAACC	21140
4744	UUGAAGGU G UUUUCCAC	4020	GTGGAAAA GGCTAGCTACAACGA ACCTTCAA	21141
4761	ACCCUUUG G CAUACAAC	4021	GTTGTATG GGCTAGCTACAACGA CAAAGGGT	21142
4777	CAAAAGGA G CCGCUUUG	4022	CAAAGCGG GGCTAGCTACAACGA TCCTTTTG	21143
4780	AAGGAGCC G CUUUGAUG	4023	CATCAAAG GGCTAGCTACAACGA GGCTCCTT	21144
4790	UUUGAUGA G CGGAGAGG	4024	CCTCTCCG GGCTAGCTACAACGA TCATCAAA	21145
4799	CGGAGAGG G CCGCCUGG	4025	CCAGCGGG GGCTAGCTACAACGA CCTCTCCG	21146
4802	AGAGGGCC G CCUGGACC	4026	GGTCCAGG GGCTAGCTACAACGA GGCCCTCT	21147
4820	AUACUGGG G CAGUGUCA	4027	TGACACTG GGCTAGCTACAACGA CCCAGTAT	21148
4823	CUGGGGCA G UGUCAAGG	4028	CCTTGACA GGCTAGCTACAACGA TGCCCCAG	21149
4825	GGGGCAGU G UCAAGGAG	4029	CTCCTTGA GGCTAGCTACAACGA ACTGCCCC	21150
4844	UCGACUUU G UUACGGAG	4030	CTCCGTAA GGCTAGCTACAACGA AAAGTCGA	21151
4866	UGGAAAUU G CAGCAAA	4031	TTGTGCTG GGCTAGCTACAACGA AATTTCCA	21152
4869	AAAUUGCA G CACAAGUG	4032	CACCTGTG GGCTAGCTACAACGA TGCAATTT	21153
4875	CAGCACAA G UGGAACGG	4033	CCGTTCCA GGCTAGCTACAACGA TTGTGCTG	21154
4884	UGGAACGG G CAGGAUGA	4034	TCATCCTG GGCTAGCTACAACGA CCGTTCCA	21155
4894	AGGAUGAG G UGCAGAUG	4035	CATCTGCA GGCTAGCTACAACGA CTCATCCT	21156
4896	GAUGAGGU G CAGAUGAU	4036	ATCATCTG GGCTAGCTACAACGA ACCTCATC	21157
4906	AGAUGAUU G UGGUGGAA	4037	TTCCACCA GGCTAGCTACAACGA AATCATCT	21158
4909	UGAUUGUG G UGGAACCU	4038	AGGTTCCA GGCTAGCTACAACGA CACAATCA	21159
4919	GGAACUG G CAAGAACG	4039	CGTCTGTG GGCTAGCTACAACGA GGTCTTCC	21160
4927	GCAAGAAC G UUAAGAAC	4040	GTTCTTAA GGCTAGCTACAACGA GTTCTTGC	21161
4936	UUAAGAAC G UCCAGACG	4041	CGTCTGGA GGCTAGCTACAACGA GTTCTTAA	21162
4954	AACCAGGG G UGUUCAA	4042	TTTGAACA GGCTAGCTACAACGA CCCTGGTT	21163
4956	CCAGGGGU G UUCAAAAC	4043	GTTTTGAA GGCTAGCTACAACGA ACCCTGG	21164
4984	AAAUCCGG G CCGUGACU	4044	AGTCACGG GGCTAGCTACAACGA CCCGATTT	21165
4987	UCGGGGCC G UGACUUUG	4045	CAAAGTCA GGCTAGCTACAACGA GGCCCCGA	21166
5018	AACAUCAG G CUCACCAA	4046	TTGGTGAG GGCTAGCTACAACGA CTGATGTT	21167
5029	CACCAUA G UGGACAAA	4047	TTTGTTCA GGCTAGCTACAACGA TATGTTG	21168
5042	CAAAAACG G UGAUGUGA	4048	TCACATCA GGCTAGCTACAACGA CGTTTTTG	21169
5047	ACGGUGAU G UGAUUGGG	4049	CCCAATCA GGCTAGCTACAACGA ATCACCCT	21170
5055	GUGAUUGG G CUUUAUGG	4050	CCATAAAG GGCTAGCTACAACGA CCAATCAC	21171
5063	GCUUUAUG G CAUUGGAG	4051	CTCCATTG GGCTAGCTACAACGA CATAAAGC	21172
5071	GCAUUGGA G UCAUAAUG	4052	CATTATGA GGCTAGCTACAACGA TCCATTGC	21173
5079	GUCAUAAU G CCAACCGG	4053	CCGTTGGG GGCTAGCTACAACGA ATTATGAC	21174
5087	GCCCAACG G CUCAUACA	4054	TGTATGAG GGCTAGCTACAACGA CGTTGGGC	21175
5099	AUACAUA G CGGAUAG	4055	CTATCGCG GGCTAGCTACAACGA TTATGTAT	21176
5101	ACAUAAGC G CGAUAGUG	4056	CACATATG GGCTAGCTACAACGA GCTTATGT	21177
5107	GCGCGAUA G UGCAGGGU	4057	ACCCTGCA GGCTAGCTACAACGA TATCGCGC	21178
5109	GCGAUAGU G CAGGGUGA	4058	TCACCCTG GGCTAGCTACAACGA ACTATCGC	21179
5114	AGUGCAGG G UGAAAGGA	4059	TCCTTTCA GGCTAGCTACAACGA CCTGCACT	21180
5130	AUGGAUGA G CCAAUCCC	4060	GGGATTGG GGCTAGCTACAACGA TCATCCAT	21181
5140	CAAUCCCA G CCGGAUUC	4061	GAATCCGG GGCTAGCTACAACGA TGGGATTG	21182
5160	CCUGAGAU G CUGAGGAA	4062	TTCTCTAG GGCTAGCTACAACGA ATCTCAGG	21183
5182	AGAUCACU G UACUGGAU	4063	ATCCAGTA GGCTAGCTACAACGA AGTGATCT	21184
5201	CCAUCCCG G CGCCGGUA	4064	TACCGGGG GGCTAGCTACAACGA CGGGATGG	21185
5203	AUCCCGGC G CCGUAAA	4065	TTTACCGG GGCTAGCTACAACGA GCCGGGAT	21186
5207	CGGCGCCG G UAAAACAA	4066	TTGTTTTA GGCTAGCTACAACGA CGGCGCCG	21187
5226	AGGAUUCU G CCACAGAU	4067	ATCTGTGG GGCTAGCTACAACGA AGAATCCT	21188
5245	UCAAGAG G CCAUAAAC	4068	GTTTATGG GGCTAGCTACAACGA CTCTTTGA	21189
5269	UGAGAAAC G CCGUGCUA	4069	TAGCACGG GGCTAGCTACAACGA TGTCTCA	21190
5272	GAACAGCC G UGCUAGCA	4070	TGCTAGCA GGCTAGCTACAACGA GGCTGTTT	21191
5274	ACAGCCGU G CUAGCACC	4071	GGTGCTAG GGCTAGCTACAACGA ACGGCTGT	21192
5278	CCGUGCUA G CACCAACC	4072	GGTGTGTG GGCTAGCTACAACGA TAGCACGG	21193
5290	CAACCAGG G UUGUGGCU	4073	AGCCACAA GGCTAGCTACAACGA CCTGGTTG	21194
5293	CCAGGGUU G UGGUGGCU	4074	AGCAGCCA GGCTAGCTACAACGA AACCTTGG	21195
5296	GGGUUGUG G CUGCUGAG	4075	CTCAGCAG GGCTAGCTACAACGA CACAACCC	21196
5299	UUGUGGCU G CUGAGAUG	4076	CATCTCAG GGCTAGCTACAACGA AGCCACAA	21197
5308	CUGAGAUG G CUGAAGCA	4077	TGCTTCAG GGCTAGCTACAACGA CATCTCAG	21198

5314	UGGCUGAA G CACUGAGA	4078	TCTCAGTG GGCTAGCTACAACGA TTCAGCCA	21199
5328	AGAGGACU G CCCAUCCG	4079	CGGATGGG GGCTAGCTACAACGA AGTCCTCT	21200
5337	CCCAUCCG G UACCAGAC	4080	GTCTGGTA GGCTAGCTACAACGA CGGATGGG	21201
5350	AGACAUCC G CAGUGCCC	4081	GGGCACTG GGCTAGCTACAACGA GGATGTCT	21202
5353	CAUCCGCA G UGCCAGA	4082	TCTGGGCA GGCTAGCTACAACGA TGCGGATG	21203
5355	UCCCGAGU G CCCAGAGA	4083	TCTCTGGG GGCTAGCTACAACGA ACTGCGGA	21204
5383	AUGAGAUU G UUGAUGUC	4084	GACATCAA GGCTAGCTACAACGA AATCTCAT	21205
5389	UUGUUGAU G UCAUGUGU	4085	ACACATGA GGCTAGCTACAACGA ATCAACAA	21206
5394	GAUGUCAU G UGUCAUGC	4086	GCATGACA GGCTAGCTACAACGA ATGACATC	21207
5396	UGUCAUGU G UCAUGCUA	4087	TAGCATGA GGCTAGCTACAACGA ACATGACA	21208
5401	UGUGUCAU G CUACCCUC	4088	GAGGGTAG GGCTAGCTACAACGA ATGACACA	21209
5418	ACCCACAG G CUGAUGUC	4089	GACATCAG GGCTAGCTACAACGA CTGTGGGT	21210
5424	AGGCUGAU G UCUCUCA	4090	TGAGGAGA GGCTAGCTACAACGA ATCAGCCT	21211
5437	CUCACAGG G UGCCGAAC	4091	GTTTCGGA GGCTAGCTACAACGA CCTGTGAG	21212
5439	CACAGGGU G CCGAACUA	4092	TAGTTCGG GGCTAGCTACAACGA ACCTGTG	21213
5454	UACAACCU G UUCGUGAU	4093	ATCACGAA GGCTAGCTACAACGA AGGTTGTA	21214
5458	ACCUGUUC G UGAUGGAU	4094	ATCCATGA GGCTAGCTACAACGA GAACAGGT	21215
5470	UGGAUGAG G CUCAUUC	4095	GAAATGAG GGCTAGCTACAACGA CTGATCCA	21216
5488	CCGACCCA G CUAGCAUU	4096	AATGCTAG GGCTAGCTACAACGA TGGTTCGG	21217
5492	CCCAGCUA G CAUUGCAG	4097	CTGCAATG GGCTAGCTACAACGA TAGCTGGG	21218
5497	CUAGCAUU G CAGCAAGA	4098	TCTTGCTG GGCTAGCTACAACGA AATGCTAG	21219
5500	GCAUUGCA G CAAGAGGU	4099	ACCTCTTG GGCTAGCTACAACGA TGCAATGC	21220
5507	AGCAAGAG G UUAUUAU	4100	AAATGTAA GGCTAGCTACAACGA CTCTTGCT	21221
5524	CCACCAAG G UCGAGCUA	4101	TAGCTCGA GGCTAGCTACAACGA CTTGTGTT	21222
5529	AAGGUCGA G CUAGGGGA	4102	TCCCCTAG GGCTAGCTACAACGA TCGACCTT	21223
5539	UAGGGGAG G CGGCGGCA	4103	TGCCGCGG GGCTAGCTACAACGA CTCCCCTA	21224
5542	GGGAGGCG G CGGCAUA	4104	TATTGCCG GGCTAGCTACAACGA CGCCTCCC	21225
5545	AGGCGGCG G CAUAUUC	4105	GAATATTG GGCTAGCTACAACGA CGCCGCT	21226
5560	UCAUGACA G CCACCCCA	4106	TGGGGTGG GGCTAGCTACAACGA TGTGATGA	21227
5573	CCCACCAG G CACUUCAG	4107	CTGAAGTG GGCTAGCTACAACGA CTGGTGGG	21228
5595	UUCCAGA G UCCAAUUC	4108	GAATTGGA GGCTAGCTACAACGA TCTGGGAA	21229
5641	CGGAUCGA G CUUGAAC	4109	GTTCCAAG GGCTAGCTACAACGA TCGATCCG	21230
5689	GGAAGACG G UUUGGUUU	4110	AAACCAAA GGCTAGCTACAACGA CGTCTTCC	21231
5694	ACGGUUUG G UUUGUGCC	4111	GGCACAAA GGCTAGCTACAACGA CAAACCGT	21232
5698	UUUGGUUU G UGCCUAGU	4112	ACTAGGCA GGCTAGCTACAACGA AAACCAAA	21233
5700	UGGUUUGU G CCUAGUGU	4113	ACACTAGG GGCTAGCTACAACGA ACAACCA	21234
5705	UGUGCCUA G UGUCAAGA	4114	TCTTGACA GGCTAGCTACAACGA TAGGCACA	21235
5707	UGCCUAGU G UCAAGAUG	4115	CATCTTGA GGCTAGCTACAACGA ACTAGGCA	21236
5728	AUGAGAUU G CCCUUGC	4116	GCAAAAGG GGCTAGCTACAACGA AATCTCAT	21237
5735	UGCCUUUU G CCUACAAC	4117	GTTGTAGG GGCTAGCTACAACGA AAAGGGCA	21238
5744	CCUACAAC G UGCUGGAA	4118	TTCCAGCA GGCTAGCTACAACGA GTTGTAGG	21239
5746	UACAACGU G CUGGAAAG	4119	CTTTCAG GGCTAGCTACAACGA ACGTTGTA	21240
5758	GAAAGAAA G UAGUCCAA	4120	TTGGACTA GGCTAGCTACAACGA TTTCTTTC	21241
5761	AGAAAGUA G UCCAAUUG	4121	CAATTGGA GGCTAGCTACAACGA TACTTTCT	21242
5778	AACAGAAA G UCGUACGA	4122	TCGTACGA GGCTAGCTACAACGA TTTCTGTT	21243
5781	AGAAAGUC G UACGAGAC	4123	GTCTCGTA GGCTAGCTACAACGA GACTTTCT	21244
5793	GAGACGGA G UACCCAAA	4124	TTTGGGTA GGCTAGCTACAACGA TCCGTCTC	21245
5804	CCCAAAAU G UAAGAACG	4125	CGTTCCTA GGCTAGCTACAACGA ATTTTGGG	21246
5827	GGGACUUU G UUAUCACA	4126	TGTGATAA GGCTAGCTACAACGA AAAGTCCC	21247
5857	AAAUAGGG G CUAACUUC	4127	GAAGTTAG GGCTAGCTACAACGA CCCCATT	21248
5869	ACUUCAAG G CGAGCAGG	4128	CCTGCTCG GGCTAGCTACAACGA CTGGAAGT	21249
5873	CAAGGCGA G CAGGGUGA	4129	TCACCCTG GGCTAGCTACAACGA TCGCCTTG	21250
5878	CGAGCAGG G UGAUUGAC	4130	GTCAATCA GGCTAGCTACAACGA CCTGCTCG	21251
5888	GAUUGACA G CCGGAAGA	4131	TCTTCCGG GGCTAGCTACAACGA TGTCAATC	21252
5897	CCGGAAGA G UGUGAAC	4132	GTTTCACA GGCTAGCTACAACGA TCTTCCGG	21253
5899	GGAAGAGU G UGAAACCA	4133	TGGTTTCA GGCTAGCTACAACGA ACTCTTCC	21254
5935	AAGGGAGA G UGAUCCUG	4134	CAGGATCA GGCTAGCTACAACGA TCTCCCTT	21255
5956	AACCAUCU G CAGUGACA	4135	TGTCACTG GGCTAGCTACAACGA AGATGGTT	21256
5959	CAUCUGCA G UGACAGCA	4136	TGCTGTCA GGCTAGCTACAACGA TGCAGATG	21257
5965	CAGUGACA G CAGCUAGU	4137	ACTAGCTG GGCTAGCTACAACGA TGTCACTG	21258
5968	UGACAGCA G CUAGUGCC	4138	GGCACTAG GGCTAGCTACAACGA TGCTGTCA	21259
5972	AGCAGCUA G UGCCGCCC	4139	GGGCGGCA GGCTAGCTACAACGA TAGCTGCT	21260

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5974	CAGCUAGU G CCGCCCAG	4140	CTGGGCGG GGCTAGCTACAACGA ACTAGCTG	21261
5977	CUAGUGCC G CCCAGAGA	4141	TCTCTGGG GGCTAGCTACAACGA GGCACCTAG	21262
5987	CCAGAGAC G UGGACGUA	4142	TACGTCCA GGCTAGCTACAACGA GTCTCTGG	21263
5993	ACGUGGAC G UAUCGGUA	4143	TACCGATA GGCTAGCTACAACGA GTCCACGT	21264
5999	ACGUUAUC G UAGAAUUC	4144	GATTTCTA GGCTAGCTACAACGA CGATACGT	21265
6009	AGAAAUCC G UCGCAAGU	4145	ACTTGCGA GGCTAGCTACAACGA GGATTTCT	21266
6012	AAUCCGUC G CAAGUUGG	4146	CCAACCTG GGCTAGCTACAACGA GACGGATT	21267
6016	CGUCGCAA G UUGGUGAU	4147	ATCACCAA GGCTAGCTACAACGA TTGCGACG	21268
6020	GCAAGUUG G UGAUGAGU	4148	ACTCATCA GGCTAGCTACAACGA CAACTTGC	21269
6027	GGUGAUGA G UACUGUUA	4149	TAACAGTA GGCTAGCTACAACGA TCATCACC	21270
6032	UGAGUACU G UUAUGGGG	4150	CCCCATAA GGCTAGCTACAACGA AGTACTCA	21271
6042	UAUGGGGG G CACACGAA	4151	TTCGTGTG GGCTAGCTACAACGA CCCCATA	21272
6070	CGAACUUC G CCAUUGG	4152	CCAATGGG GGCTAGCTACAACGA GAAGTTCG	21273
6085	GGACUGAG G CACGAUUC	4153	GATTCGTG GGCTAGCTACAACGA CTCAGTCC	21274
6096	CGAAUCAU G CUGGACAA	4154	TTGTCCAG GGCTAGCTACAACGA ATGATTCTG	21275
6114	AUCAACAU G CCAAACGG	4155	CCGTTTGG GGCTAGCTACAACGA ATGTTGAT	21276
6130	GAUGAUUC G CUCAAUUC	4156	GAATTGAG GGCTAGCTACAACGA GATCAGTC	21277
6150	CAACCAGA G CGUGAGAA	4157	TTCTACAG GGCTAGCTACAACGA TCTGTTTG	21278
6152	ACCAGAGC G UGAGAAGG	4158	CCTTCTCA GGCTAGCTACAACGA GCTCTGGT	21279
6160	GUGAGAAG G UAUUACC	4159	GGTATATA GGCTAGCTACAACGA CTTCTCAC	21280
6186	GAAUACCG G CUCAGAGG	4160	CCTCTGAG GGCTAGCTACAACGA CGGTATTC	21281
6222	CUGGAACU G UUGAGGAC	4161	GTCTTCAA GGCTAGCTACAACGA AGTCCAG	21282
6232	UGAGGACU G CAGAUCUG	4162	CAGATCTG GGCTAGCTACAACGA AGTCTCA	21283
6240	GCAGAUUC G CCAGUUGG	4163	CAAACCTG GGCTAGCTACAACGA AGATCTGC	21284
6244	AUCUGCCA G UUUGGCUG	4164	CAGCCAAA GGCTAGCTACAACGA TGGCAGAT	21285
6249	CCAGUUUG G CUGGCUUA	4165	TAAGCCAG GGCTAGCTACAACGA CAACTGG	21286
6253	UUUGGCUG G CUUACAAG	4166	CTTGTAAG GGCTAGCTACAACGA CAGCCAAA	21287
6262	CUUACAAG G UUGCAGCG	4167	CGTGCAA GGCTAGCTACAACGA CTTGTAAG	21288
6265	ACAAGGUU G CAGCGGCU	4168	AGCCGCTG GGCTAGCTACAACGA AACCTTGT	21289
6268	AGGUUGCA G CGGCUUGA	4169	TCCAGCCG GGCTAGCTACAACGA TGCAACCT	21290
6271	UUGCAGCG G CUGGAGUG	4170	CACTCCAG GGCTAGCTACAACGA CGTGCAA	21291
6277	CGGCUUGA G UGUCAUAC	4171	GTATGACA GGCTAGCTACAACGA TCCAGCCG	21292
6279	GCUGGAGU G UCAUACCA	4172	TGTTATGA GGCTAGCTACAACGA ACTCCAGC	21293
6297	GACCGGAG G UGGUGCUU	4173	AAGCACC A GGCTAGCTACAACGA CTCGGGTC	21294
6300	CGGAGGUG G UGUUUGA	4174	TCAAAGCA GGCTAGCTACAACGA CACCTCCG	21295
6302	GAGGUGGU G CUUUGAUG	4175	CATCAAAG GGCTAGCTACAACGA ACCACCTC	21296
6311	CUUUGAUG G UCCUAGGA	4176	TCCTAGGA GGCTAGCTACAACGA CATCAAAG	21297
6349	ACAACGAA G UGGAAGUC	4177	GACTTCCA GGCTAGCTACAACGA TTCGTTGT	21298
6355	AAGUGGAA G UCAUACG	4178	CGTGATGA GGCTAGCTACAACGA TTCCACTT	21299
6366	AUCACGAA G CUUGGUGA	4179	TCACCAAG GGCTAGCTACAACGA TTCGTGAT	21300
6371	GAAGCUUG G UGAAAGGA	4180	TCCTTTCA GGCTAGCTACAACGA CAAGCTTC	21301
6390	AUUCUGAG G CCGCGCUG	4181	CAGCGCGG GGCTAGCTACAACGA CTCAGAAT	21302
6393	CUGAGGCC G CGCUGGAU	4182	ATCCAGCG GGCTAGCTACAACGA GGCCTCAG	21303
6395	GAGGCCGC G CUGGAUUG	4183	CAATCCAG GGCTAGCTACAACGA GCGGCCTC	21304
6406	GGAUUGAC G CCAGGGUG	4184	CACCCTGG GGCTAGCTACAACGA GTCAATCC	21305
6412	ACGCCAGG G UGUACUCG	4185	CGAGTACA GGCTAGCTACAACGA CCTGGCGT	21306
6414	GCCAGGGU G UACUCGGA	4186	TCCGAGTA GGCTAGCTACAACGA ACCCTGGC	21307
6430	AUACCCAG G CACUAAAG	4187	CTTTAGTG GGCTAGCTACAACGA CTGGTGAT	21308
6439	CACUAAAG G CGUUAAG	4188	CTTGAACG GGCTAGCTACAACGA CTTTAGTG	21309
6441	CUAAAGGC G UUCAAGGA	4189	TCCTTGAA GGCTAGCTACAACGA GCCTTTAG	21310
6454	AGGACUUC G CCUCGGGA	4190	TCCCGAGG GGCTAGCTACAACGA GAAGTCCT	21311
6467	GGGAAAAC G UUCUCAGA	4191	TCTGAGAA GGCTAGCTACAACGA GTTTTCCC	21312
6480	CAGAUAGG G CUCAUUGA	4192	TCAATGAG GGCTAGCTACAACGA CCTATCTG	21313
6490	UCAUUGAG G UUCUGGGA	4193	TCCAGAAA GGCTAGCTACAACGA CTCATGA	21314
6504	GGAAAGAU G CCUGAGCA	4194	TGCTCAGG GGCTAGCTACAACGA ATCTTTCC	21315
6510	AUGCCUGA G CACUUCAU	4195	ATGAAGTG GGCTAGCTACAACGA TCAGGCAT	21316
6535	CAUGGGAA G CACUUGAC	4196	GTCAAGTG GGCTAGCTACAACGA TTCCCATG	21317
6549	GACACCAU G UACGUUGU	4197	ACAACGTA GGCTAGCTACAACGA ATGTGTCT	21318
6553	CCAUGUAC G UUGUGGCC	4198	GGCCACAA GGCTAGCTACAACGA GTACATGG	21319
6556	UGUACGUU G UGGCCACU	4199	AGTGGCCA GGCTAGCTACAACGA AACGTACA	21320
6559	ACGUUGUG G CCACUGCA	4200	TGCAGTGG GGCTAGCTACAACGA CACAACGT	21321
6565	UGGCCACU G CAGAGAAA	4201	TTTCTCTG GGCTAGCTACAACGA AGTGGCCA	21322

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6583	GAGGAAGA G CUCACAGA	4202	TCTGTGAG GGCTAGCTACAACGA TCTTCCTC	21323
6595	ACAGAAUG G CCCUGGAG	4203	CTCCAGGG GGCTAGCTACAACGA CATTCCTGT	21324
6609	GAGGAACU G CCAGAUGC	4204	GCATCTGG GGCTAGCTACAACGA AGTTCCTC	21325
6616	UGCCAGAU G CUCUUCAG	4205	CTGAAGAG GGCTAGCTACAACGA ATCTGGCA	21326
6631	AGACAAU G CCUUGAUU	4206	AATCAAGG GGCTAGCTACAACGA AATGTCT	21327
6640	CCUUGAUU G CCUUAUUG	4207	CAATAAGG GGCTAGCTACAACGA AATCAAGG	21328
6650	CUUAUUGA G UGUGAUGA	4208	TCATCACA GGCTAGCTACAACGA TCAATAAG	21329
6652	UAUUGAGU G UGAUGACC	4209	GGTCATCA GGCTAGCTACAACGA ACTCAATA	21330
6667	CCAUGGGA G UAUUCUUC	4210	GAGAATA GGCTAGCTACAACGA TCCCATGG	21331
6684	CUCCUCAU G CAGCGGAA	4211	TTCCGCTG GGCTAGCTACAACGA ATGAGGAG	21332
6687	CUCAUGCA G CGGAAGGG	4212	CCCTCCG GGCTAGCTACAACGA TGCATGAG	21333
6695	GCGGAAGG G CAUUGGAA	4213	TTCCAATG GGCTAGCTACAACGA CCTCCGCG	21334
6710	AAAGAUAG G UUUGGGAG	4214	CTCCCAA GGCTAGCTACAACGA CTATCTTT	21335
6719	UUUGGGAG G CGCUGUCU	4215	AGACAGCG GGCTAGCTACAACGA CTCCCAA	21336
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GGCTAGCTACAACGA GCTCCCA	21337
6724	GAGGCGCU G UCUUGGGA	4217	TCCCAAGA GGCTAGCTACAACGA AGCGCCTC	21338
6733	UCUUGGGA G UCGCGACC	4218	GGTGCAGA GGCTAGCTACAACGA TCCCAAGA	21339
6736	UGGGAGUC G CGACCUUU	4219	AAAGGTCG GGCTAGCTACAACGA GACTCCCA	21340
6749	CUUUUUUCU G UUGGAUGG	4220	CCATCCAA GGCTAGCTACAACGA AGAAAAAG	21341
6757	GUUGGAUG G CUGAAGUU	4221	AACTTCAG GGCTAGCTACAACGA CATCCAAC	21342
6763	UGGCUGAA G UUCCAGGA	4222	TCCTGGAA GGCTAGCTACAACGA TTCAGCCA	21343
6781	CGAAGAUC G CCGGAAUG	4223	CATTCGCG GGCTAGCTACAACGA GATCTTCG	21344
6789	GCCGGAU G UUGCUGCU	4224	AGCAGCAA GGCTAGCTACAACGA ATTCCGCG	21345
6792	GGAUGUUU G CUGCUCUC	4225	GAGAGCAG GGCTAGCTACAACGA AACATTCC	21346
6795	AUGUUGCU G CUCUCCCU	4226	AGGGAGAG GGCTAGCTACAACGA AGCAACAT	21347
6817	UGAUGAUU G UGCUAAUU	4227	AATTAGCA GGCTAGCTACAACGA AATCATCA	21348
6819	AUGAUUGU G CUAAUUC	4228	GGAATTAG GGCTAGCTACAACGA ACAATCAT	21349
6831	AUUCUGA G CCAGAGAA	4229	TTCTCTGG GGCTAGCTACAACGA TCAGGAAT	21350
6840	CCAGAGAA G CAACGUUC	4230	GAACGTTG GGCTAGCTACAACGA TTCTCTGG	21351
6845	GAAGCAAC G UUCGCAGA	4231	TCTGCGAA GGCTAGCTACAACGA GTTGCTTC	21352
6849	CAACGUUC G CAGACAGA	4232	TCTGTCTG GGCTAGCTACAACGA GAACGTTG	21353
6864	GACAACCA G CUAGCCGU	4233	ACGGCTAG GGCTAGCTACAACGA TGGTTGTC	21354
6868	ACCAGCUA G CCGUGUUC	4234	GAACACGG GGCTAGCTACAACGA TAGCTGGT	21355
6871	AGCUAGCC G UGUUCCUG	4235	CAGGAACA GGCTAGCTACAACGA GGCTAGCT	21356
6873	CUAGCCGU G UUCUGAU	4236	ATCAGGAA GGCTAGCTACAACGA ACGGCTAG	21357
6884	CCUGAUUU G UGUCAUGA	4237	TCATGACA GGCTAGCTACAACGA AAATCAGG	21358
6886	UGAUUUGU G UCAUGACC	4238	GGTCATGA GGCTAGCTACAACGA ACAATCA	21359
6898	UGACCCUU G UGAGCGCA	4239	TGCGCTCA GGCTAGCTACAACGA AAGGGTCA	21360
6902	CCUUGUGA G CGCAGUGG	4240	CCACTGCG GGCTAGCTACAACGA TCACAAGG	21361
6904	UUGUGAGC G CAGUGGCA	4241	TGCCACTG GGCTAGCTACAACGA GCTCACA	21362
6907	UGAGCGCA G UGGCAGCC	4242	GGCTGCCA GGCTAGCTACAACGA TGCGCTCA	21363
6910	GCGCAGUG G CAGCCAAC	4243	GTTGGCTG GGCTAGCTACAACGA CACTGCGC	21364
6913	CAGUGGCA G CCAACGAG	4244	CTCGTTGG GGCTAGCTACAACGA TGCCACTG	21365
6926	CGAGAUGG G UUGGCUAG	4245	CTAGCCAA GGCTAGCTACAACGA CCACTCTG	21366
6930	AUGGGUUG G CUAGAUAA	4246	TTATCTAG GGCTAGCTACAACGA CAACCCAT	21367
6947	GACCAAGA G UGACAUAA	4247	TTATGTCA GGCTAGCTACAACGA TCTTGGTC	21368
6956	UGACAUAA G CAGUUUGU	4248	ACAAACTG GGCTAGCTACAACGA TTATGTCA	21369
6959	CAUAAGCA G UUUGUUUG	4249	CAAAACAA GGCTAGCTACAACGA TGCTATG	21370
6963	AGCAGUUU G UUUGGGCA	4250	TGCCCAA GGCTAGCTACAACGA AAATGCT	21371
6969	UUGUUUGG G CAAAGAAU	4251	ATTCTTTG GGCTAGCTACAACGA CCAACAA	21372
6982	GAAUUGAG G UCAAGGAG	4252	CTCCTTGA GGCTAGCTACAACGA CTAATTC	21373
6998	GAAUUUCA G CAUGGGAG	4253	CTCCCATG GGCTAGCTACAACGA TGAATTC	21374
7008	AUGGGAGA G UUUCUUUU	4254	AAAAGAAA GGCTAGCTACAACGA TCTCCAT	21375
7026	GACUUGAG G CCGGCAAC	4255	GTTGCCGG GGCTAGCTACAACGA CTCAGTC	21376
7030	UGAGGCCG G CAACAGCC	4256	GGCTGTTG GGCTAGCTACAACGA CGGCCTCA	21377
7036	CGGCAACA G CCUGUCA	4257	TGACCAGG GGCTAGCTACAACGA TGTGCCG	21378
7041	ACAGCCUG G UCACUGUA	4258	TACAGTGA GGCTAGCTACAACGA CAGGCTGT	21379
7047	UGGUCACU G UACGUGU	4259	ACAGCGTA GGCTAGCTACAACGA AGTGACCA	21380
7051	CACUGUAC G CUGUGACA	4260	TGTCACAG GGCTAGCTACAACGA GTACAGTG	21381
7054	UGUACGCU G UGACAACA	4261	TGTTGTCA GGCTAGCTACAACGA AGCGTACA	21382
7063	UGACAACA G CGGUCCUC	4262	GAGGACCG GGCTAGCTACAACGA TGTGTGTA	21383
7066	CAACAGCG G UCCUCACU	4263	AGTGAGGA GGCTAGCTACAACGA CGCTGTTG	21384

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7080	ACUCCACU G CUAAGCA	4264	TGCTTTAG GGCTAGCTACAACGA AGTGGAGT	21385
7086	CUGCUAAA G CAUUGAU	4265	ATCAAAATG GGCTAGCTACAACGA TTTAGCAG	21386
7098	UUGAUCAC G UCAGAUUA	4266	TAATCTGA GGCTAGCTACAACGA GTGATCAA	21387
7135	CAAUAAAC G UUCAGGCA	4267	TGCCTGAA GGCTAGCTACAACGA GTTATTTG	21388
7141	ACGUUCAG G CAAGUGCA	4268	TGCACTTG GGCTAGCTACAACGA CTGAACGT	21389
7145	UCAGGCAA G UGCACUUA	4269	ATAGTGCA GGCTAGCTACAACGA TTGCCTGA	21390
7147	AGGCAAGU G CACUUAUC	4270	GAATAGTG GGCTAGCTACAACGA ACTTGCCT	21391
7162	UCACACUC G CGCGAGGC	4271	GCCTCGCG GGCTAGCTACAACGA GAGTGTGA	21392
7164	ACACUCGC G CGAGGCUU	4272	AAGCCTCG GGCTAGCTACAACGA GCGAGTGT	21393
7169	CGCGCGAG G CUUCCCCU	4273	AGGGGAAG GGCTAGCTACAACGA CTCGCGCG	21394
7180	UCCCCUUC G UCGAUGUU	4274	AACATCGA GGCTAGCTACAACGA GAAGGGGA	21395
7186	UCGUUGAU G UUGGAGUG	4275	CACTCCAA GGCTAGCTACAACGA ATCGACGA	21396
7192	AUGUUGGA G UGUCGGCU	4276	AGCCGACA GGCTAGCTACAACGA TCCAACAT	21397
7194	GUUGGAGU G UCGGCUCU	4277	AGAGCCGA GGCTAGCTACAACGA ACTCCAAC	21398
7198	GAGUGUCG G CUCUCCUG	4278	CAGGAGAG GGCTAGCTACAACGA CGACACTC	21399
7206	GCUUCUCCU G CUAGCAGC	4279	GCTGCTAG GGCTAGCTACAACGA AGGAGAGC	21400
7210	UCCUGCUA G CAGCCGGA	4280	TCCGGCTG GGCTAGCTACAACGA TAGCAGGA	21401
7213	UGCUGACA G CCGGAUGC	4281	GCATCCGG GGCTAGCTACAACGA TGCTAGCA	21402
7220	AGCCGGAU G CUGGGGAC	4282	GTCCCCAG GGCTAGCTACAACGA ATCCGGCT	21403
7231	GGGACAA G UCACCCUC	4283	GAGGGTGA GGCTAGCTACAACGA TTGTCCCC	21404
7243	CCUCUACC G UUACGGUA	4284	TACCGTAA GGCTAGCTACAACGA GGTGAGGG	21405
7249	CCGUUACG G UAACAGCG	4285	CGCTGTTA GGCTAGCTACAACGA CGTAACGG	21406
7255	CGGUAAAC G CGCAACA	4286	TGTTGCCG GGCTAGCTACAACGA TGTTACCG	21407
7258	UAACAGCG G CAACACUC	4287	GAGTGTTC GGCTAGCTACAACGA CGCTGTTA	21408
7274	CCUUUUUU G CCACUAG	4288	CATAGTGG GGCTAGCTACAACGA AAAAAAGG	21409
7282	GCCACUUA G CCUACAUG	4289	CATGTAGG GGCTAGCTACAACGA ATAGTGGC	21410
7291	CCUACAUG G UUCCCGGU	4290	ACCGGGAA GGCTAGCTACAACGA CATGTAGG	21411
7298	GGUUCCCG G UUGGCAAG	4291	CTTGCCAA GGCTAGCTACAACGA CGGGAACC	21412
7302	CCCGGUUG G CAAGCUGA	4292	TCAGCTTG GGCTAGCTACAACGA CAACCGGG	21413
7306	GUUGGCAA G CUGAGGCA	4293	TGCCTCAG GGCTAGCTACAACGA TTGCCAAC	21414
7312	AAGCUGAG G CAUUGCGC	4294	CGCATTG GGCTAGCTACAACGA CTCAGCTT	21415
7317	GAGGCAU G CGCUCAGC	4295	GCTGAGCG GGCTAGCTACAACGA ATTGCCTC	21416
7319	GGCAAUGC G CUCAGCCC	4296	GGGCTGAG GGCTAGCTACAACGA GCATTGCC	21417
7324	UGCUCUCA G CCCAGCGG	4297	CCGCTGGG GGCTAGCTACAACGA TGAGCGCA	21418
7329	UCAGCCCA G CGGCGGAC	4298	GTCCGCGG GGCTAGCTACAACGA TGGGCTGA	21419
7332	GCCCAGCG G CGGACAGC	4299	GCTGTCCG GGCTAGCTACAACGA CGCTGGGC	21420
7339	GGCGGACA G CGGCCGGA	4300	TCCGGCCG GGCTAGCTACAACGA TGTCCGCC	21421
7342	GGACAGCG G CGGAAUC	4301	GATTCCGG GGCTAGCTACAACGA CGCTGTCC	21422
7360	UGAAGAAC G CUGUAGUG	4302	CACTAGCA GGCTAGCTACAACGA GTTCTTCA	21423
7363	AGAACGCU G UAGUGGAU	4303	ATCCACTA GGCTAGCTACAACGA AGCGTTCT	21424
7366	ACGUGUA G UGGAUGGC	4304	GCCATCCA GGCTAGCTACAACGA TACAGCGT	21425
7373	AGUGGAUG G CAUCGUGG	4305	CCAGATG GGCTAGCTACAACGA CATCCACT	21426
7378	AUGGCAUC G UGGCCAG	4306	CGTGGCCA GGCTAGCTACAACGA GATGCCAT	21427
7381	GCAUCGUG G CCACGGAC	4307	GTCCGTGG GGCTAGCTACAACGA CACGATGC	21428
7390	CCACGGAC G UCCCAGAA	4308	TTCTGGGA GGCTAGCTACAACGA GTCCGTGG	21429
7404	GAAUUGA G CGCACCAC	4309	GTGGTGGG GGCTAGCTACAACGA TCTAATTC	21430
7406	AUUAGAGC G CACCACAC	4310	GTGTGGTG GGCTAGCTACAACGA GCTCTAAT	21431
7422	CCCAUCAU G CAGAAGAA	4311	TTCTTCTG GGCTAGCTACAACGA ATGATGGG	21432
7432	AGAAGAAA G UUGGACAG	4312	CTGTCCAA GGCTAGCTACAACGA TTTCTTCT	21433
7446	CAGAUCAU G CUGAUCUU	4313	AAGATCAG GGCTAGCTACAACGA ATGATCTG	21434
7456	UGAUCUUG G UGUCUCUA	4314	TAGAGACA GGCTAGCTACAACGA CAAGATCA	21435
7458	AUCUUGGU G UCUCUAGC	4315	GCTAGAGA GGCTAGCTACAACGA ACCAAGAT	21436
7465	UGUCUCUA G CUGCAGUA	4316	TACTGCAG GGCTAGCTACAACGA TAGAGACA	21437
7468	CUCUAGCU G CAGUAGUA	4317	TACTACTG GGCTAGCTACAACGA AGTAGAG	21438
7471	UAGCUGCA G UAGUAGUG	4318	CACTACTA GGCTAGCTACAACGA TGCAGCTA	21439
7474	CUGCAGUA G UAGUGAAC	4319	GTTCACTA GGCTAGCTACAACGA TACTGCAG	21440
7477	CAGUAGUA G UGAACCCG	4320	CGGGTTCA GGCTAGCTACAACGA TACTACTG	21441
7485	GUGAACCC G UCUGUGAA	4321	TTACAGCA GGCTAGCTACAACGA GGGTTCAC	21442
7489	ACCCGUCU G UGAAGACA	4322	TGTCTTCA GGCTAGCTACAACGA AGACGGGT	21443
7498	UGAAGACA G UACGAGAA	4323	TTCTCGTA GGCTAGCTACAACGA TGTCTTCA	21444
7507	UACGAGAA G CCGGAUUU	4324	AATTCCGG GGCTAGCTACAACGA TTCTCGTA	21445
7525	UGAUCACG G CCGCAGCG	4325	CGTGGCGG GGCTAGCTACAACGA CGTGATCA	21446

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7528	UCACGGCC G CAGCGGUG	4326	CACCGCTG GGCTAGCTACAACGA GGCCGTGA	21447
7531	CGGCCGCA G CGGUGACG	4327	CGTCACCG GGCTAGCTACAACGA TCGGGCCG	21448
7534	CCGCAGCG G UGACGCUU	4328	AAGCGTCA GGCTAGCTACAACGA CGCTGCGG	21449
7539	GCGGUGAC G CUUUGGGA	4329	TCCCAAAG GGCTAGCTACAACGA GTCACCGC	21450
7555	AGAAUGGA G CAAGCUCU	4330	AGAGCTTG GGCTAGCTACAACGA TCCATTCT	21451
7559	UGGAGCAA G CUCUGUUU	4331	AAACAGAG GGCTAGCTACAACGA TTGCTCCA	21452
7564	CAAGCUCU G UUUGGAAC	4332	GTTCCAAA GGCTAGCTACAACGA AGAGCTTG	21453
7573	UUUGGAAC G CAACAACU	4333	AGTTGTTG GGCTAGCTACAACGA GTTCCAAA	21454
7582	CAACAACU G CCAUCGGA	4334	TCCGATGG GGCTAGCTACAACGA AGTTGTTG	21455
7595	CGGACUCU G CCACAUCA	4335	TGATGTGG GGCTAGCTACAACGA AGAGTCCG	21456
7605	CACAUCAU G CGUGGGGG	4336	CCCCACG GGCTAGCTACAACGA ATGATGTG	21457
7607	CAUCAUGC G UGGGGGUU	4337	AACCCCA GGCTAGCTACAACGA GCATGATG	21458
7613	GCGUGGGG G UUGGUUGU	4338	ACAACCAA GGCTAGCTACAACGA CCCACGCG	21459
7617	GGGGGUUG G UUGUCAUG	4339	CATGACAA GGCTAGCTACAACGA CAACCCCC	21460
7620	GGUUGGUU G UCAUGUCU	4340	AGACATGA GGCTAGCTACAACGA AACCAACC	21461
7625	GUUGUCAU G UCUAUCCA	4341	TGGATAGA GGCTAGCTACAACGA ATGACAAC	21462
7682	AAAAAGAG G UGGGGCAA	4342	TTGCCCCA GGCTAGCTACAACGA CTCTTTTT	21463
7687	GAGGUGGG G CAAAAGGA	4343	TCCTTTTG GGCTAGCTACAACGA CCCACCTC	21464
7697	AAAAGGAC G CACCUUGG	4344	CCAAGGTG GGCTAGCTACAACGA GTCTTTTT	21465
7711	UGGGAGAG G UUUGGAAA	4345	TTTCCAAA GGCTAGCTACAACGA CTCTCCCA	21466
7749	AAAGAAGA G UUCACUAG	4346	CTAGTGAA GGCTAGCTACAACGA TCTTCTTT	21467
7758	UUCACUAG G UACCGCAA	4347	TTGCGGTA GGCTAGCTACAACGA CTAGTGAA	21468
7763	UAGGUACC G CAAAGAGG	4348	CCTCTTTG GGCTAGCTACAACGA GGTACCTA	21469
7771	GCAAAGAG G CCAUCAUC	4349	GATGATGG GGCTAGCTACAACGA CTCTTTGC	21470
7783	UCAUCGAA G UCGAUCGC	4350	GCGATCGA GGCTAGCTACAACGA TTCGATGA	21471
7790	AGUCGAUC G CUCAGCGG	4351	CCGCTGAG GGCTAGCTACAACGA GATCGACT	21472
7795	AUCGCUCA G CGGCAAAA	4352	TTTTGCGG GGCTAGCTACAACGA TGAGCGAT	21473
7798	GCUCAGCG G CAAAACAC	4353	GTGTTTTG GGCTAGCTACAACGA CGCTGAGC	21474
7807	CAAAACAC G CCAGGAAA	4354	TTTCTTGG GGCTAGCTACAACGA GTGTTTTG	21475
7820	GAAAGAAG G CAAUGUCA	4355	TGACATTG GGCTAGCTACAACGA CTCTTTTC	21476
7825	AAGGCAAU G UCACUGGA	4356	TCCAGTGA GGCTAGCTACAACGA ATGCGCTT	21477
7836	ACUGGAGG G CAUCCAGU	4357	ACTGGATG GGCTAGCTACAACGA CCTCCAGT	21478
7843	GGCAUCCA G UCUCUAGG	4358	CCTAGAGA GGCTAGCTACAACGA TGGATGCC	21479
7853	CUCUAGGG G CACAGCAA	4359	TTGCTGTG GGCTAGCTACAACGA CCCTAGAG	21480
7858	GGGGCACA G CAAAACUG	4360	CAGTTTGG GGCTAGCTACAACGA TGTGCCCC	21481
7872	CUGAGAUG G CUGGUCGA	4361	TCGACCAG GGCTAGCTACAACGA CATCTCAG	21482
7876	GAUGGCUG G UCGAACGG	4362	CCGTTCCA GGCTAGCTACAACGA CAGCCATC	21483
7887	GAAAGGAG G UUUCUGGA	4363	TCGAGAAA GGCTAGCTACAACGA CTCCGTTT	21484
7900	UCGAACCG G UCGGAAAA	4364	TTTTCCGA GGCTAGCTACAACGA CGGTTCCG	21485
7909	UCGGAAAA G UGAUUGAC	4365	GTCAATCA GGCTAGCTACAACGA TTTTCCGA	21486
7925	CCUUGGAU G UGGAAGAG	4366	CTCTTCCA GGCTAGCTACAACGA ATCCAAGG	21487
7934	UGGAAGAG G CGGUUGGU	4367	ACCAACCG GGCTAGCTACAACGA CTCTTCCA	21488
7937	AAGAGGCG G UUGGUGUU	4368	AACACCAA GGCTAGCTACAACGA CGCCTCTT	21489
7941	GGCGGUUG G UGUUACUA	4369	TAGTAACA GGCTAGCTACAACGA CAACCGCC	21490
7943	CGGUUGGU G UUACUAUA	4370	TATAGTAA GGCTAGCTACAACGA ACCAACCG	21491
7954	ACUAUAUG G CAACCCAA	4371	TTGGGTTG GGCTAGCTACAACGA CATATAGT	21492
7969	AAAAAAGA G UCCAAGAA	4372	TTCTTGGA GGCTAGCTACAACGA TCTTTTTT	21493
7978	UCCAAGAA G UCAGAGGG	4373	CCCTCTGA GGCTAGCTACAACGA TTCTTGGA	21494
7986	GUCAGAGG G UACACAAA	4374	TTTGTGTA GGCTAGCTACAACGA CCTCTGAC	21495
7997	CACAAAGG G CGGUCCCG	4375	CGGGACCG GGCTAGCTACAACGA CCTTTGTG	21496
8000	AAAGGGCG G UCCCGGAC	4376	GTCCGGGA GGCTAGCTACAACGA CGCCCTTT	21497
8016	CAUGAAGA G CCCAACU	4377	AGTTGGGG GGCTAGCTACAACGA TCTTCATG	21498
8026	CCCAACUA G UGCAAGU	4378	ACTTTGCA GGCTAGCTACAACGA TAGTTGGG	21499
8028	CAACUAGU G CAAAGUUA	4379	TAACTTTG GGCTAGCTACAACGA ACTAGTTG	21500
8033	AGUGCAAA G UUAUGGAU	4380	ATCCATAA GGCTAGCTACAACGA TTGCACT	21501
8050	GGAAACAU G UCACCAUG	4381	CATGGTGA GGCTAGCTACAACGA AATGTTCC	21502
8063	CAUGAAGA G UGGAGUGG	4382	CCACTCCA GGCTAGCTACAACGA TCTTCATG	21503
8068	AGAGUGGA G UGGAUGUG	4383	CACATCCA GGCTAGCTACAACGA TCCACTCT	21504
8074	GAGUGGAU G UGUUCUAC	4384	GTAGAACA GGCTAGCTACAACGA ATCCACTC	21505
8076	GUGGAUGU G UUCUACAG	4385	CTGTAGAA GGCTAGCTACAACGA ACATCCAC	21506
8094	CCUUCUGA G UGUUGUGA	4386	TCACAACA GGCTAGCTACAACGA TCAGAAGG	21507
8096	UUCUGAGU G UUGUGACA	4387	TGTCAACA GGCTAGCTACAACGA ACTCAGAA	21508

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8099	UGAGUGUU G UGACACCC	4388	GGGTGTCA GGCTAGCTACAACGA AACACTCA	21509
8114	CCUCCUUU G UGACAUCC	4389	CGATGTCA GGCTAGCTACAACGA AAAGGAGG	21510
8127	AUCGGAGA G UCCUCGUC	4390	GACGAGGA GGCTAGCTACAACGA TCTCCGAT	21511
8133	GAGUCCUC G UCAAGUGC	4391	GCACCTGA GGCTAGCTACAACGA GAGGACTC	21512
8138	CUCGUCAA G UGCUGAGG	4392	CCTCAGCA GGCTAGCTACAACGA TTGACGAG	21513
8140	CGUCAAGU G CUGAGGUU	4393	AACCTCAG GGCTAGCTACAACGA ACTTGACG	21514
8146	GUGCUGAG G UUGAAGAG	4394	CTCTTCAA GGCTAGCTACAACGA CTCAGCAC	21515
8154	GUUGAAGA G CAUAGGAC	4395	GTCCTATG GGCTAGCTACAACGA TCTTCAAC	21516
8170	CGAUUCGG G UCCUUGAA	4396	TTCAAGGA GGCTAGCTACAACGA CCGAATCG	21517
8182	UUGAAAUG G UUGAGGAC	4397	GTCCTCAA GGCTAGCTACAACGA CATTTCAA	21518
8193	GAGGACUG G CUGCACCG	4398	CGGTGCAG GGCTAGCTACAACGA CAGTCCCTC	21519
8196	GACUGGCU G CACCGAGG	4399	CCTCGGTG GGCTAGCTACAACGA AGCCAGTC	21520
8205	CACCGAGG G CCAAGGGA	4400	TCCCTTGG GGCTAGCTACAACGA CCTCGGTG	21521
8219	GGAAUUUU G CGUGAAGG	4401	CCTTCACG GGCTAGCTACAACGA AAAATTCC	21522
8221	AAUUUUGC G UGAAGGUG	4402	CACCTTCA GGCTAGCTACAACGA GCAAAATT	21523
8227	GCGUGAAG G UGCUCUGC	4403	GCAGAGCA GGCTAGCTACAACGA CTCACGCG	21524
8229	GUGAAGGU G CUCUGCCC	4404	GGGCAGAG GGCTAGCTACAACGA ACCTTCAC	21525
8234	GGUGCUCU G CCCUACA	4405	TGTAGGGG GGCTAGCTACAACGA AGAGCACC	21526
8244	CCCUACAU G CCGAAAGU	4406	ACTTTCGG GGCTAGCTACAACGA ATGTAGGG	21527
8251	UGCCGAAA G UCAUAGAG	4407	CTCTATGA GGCTAGCTACAACGA TTTCGGCA	21528
8268	AAGAUGGA G CUGCUCCA	4408	TGGAGCAG GGCTAGCTACAACGA TCCATCTT	21529
8271	AUGGAGCU G CUCCAACG	4409	CGTTGGAG GGCTAGCTACAACGA AGCTCCAT	21530
8279	GUCCCAAC G CCGUAUG	4410	CATACCGG GGCTAGCTACAACGA GTTGGAGC	21531
8283	CAACGCCG G UAUGGGGG	4411	CCCCATA GGCTAGCTACAACGA CGGCGTTG	21532
8299	GGGACUG G UCAGAAAC	4412	GTTTCTGA GGCTAGCTACAACGA CAGTCCCC	21533
8328	AAUUCAC G CACGAGAU	4413	ATCTCGTG GGCTAGCTACAACGA GTGGAATT	21534
8337	CACGAGAU G UAUUGGGU	4414	ACCCAATA GGCTAGCTACAACGA ATCTCGTG	21535
8344	UGAUUUGG G UGAGUCGA	4415	TCGACTCA GGCTAGCTACAACGA CCAATACA	21536
8348	UUGGGUGA G UCGAGCUU	4416	AAGCTCGA GGCTAGCTACAACGA TCACCCAA	21537
8353	UGAGUCGA G CUUCAGGC	4417	GCCTGAAG GGCTAGCTACAACGA TCGACTCA	21538
8360	AGCUUCAG G CAUUGGG	4418	CCACATTG GGCTAGCTACAACGA CTGAAGCT	21539
8365	CAGGCAAU G UGGUACAU	4419	ATGTACCA GGCTAGCTACAACGA ATTGCCTG	21540
8368	GCAUUGUG G UACAUUCA	4420	TGAATGTA GGCTAGCTACAACGA CACATTGC	21541
8377	UACAUUCA G UGAAUAUG	4421	CATATTCA GGCTAGCTACAACGA TGAATGTA	21542
8390	UAUGACCA G CCAGGUGC	4422	GCACCTGG GGCTAGCTACAACGA TGGTCATA	21543
8395	CCAGCCAG G UGCUCCUA	4423	TAGGAGCA GGCTAGCTACAACGA CTGGCTGG	21544
8397	AGCCAGGU G CUCCUAGG	4424	CCTAGGAG GGCTAGCTACAACGA ACCTGGCT	21545
8452	AGGAAGAU G UAAACUUG	4425	CAAGTTTA GGCTAGCTACAACGA ATCTTCCT	21546
8465	CUUGGGAA G UGGAACCA	4426	TGGTTCCA GGCTAGCTACAACGA TTCCCAAG	21547
8476	GAACCCAGG G CGUGGGGA	4427	TCCCACCG GGCTAGCTACAACGA CTGTGTTT	21548
8479	CCAGGGCG G UGGGAAA	4428	TTTTCCCA GGCTAGCTACAACGA CGCCCTGG	21549
8493	AAACCCCU G CUCAACUC	4429	GAGTTGAG GGCTAGCTACAACGA AGGGGTTT	21550
8510	AGACACCA G UAAAAUCA	4430	TGATTTTA GGCTAGCTACAACGA TGGTGTCT	21551
8541	CGACUCAG G CGUGAGUA	4431	TACTCACG GGCTAGCTACAACGA CTGAGTCG	21552
8543	ACUCAGGC G UGAGUACA	4432	TGTACTCA GGCTAGCTACAACGA GCCTGAGT	21553
8547	AGGCGUGA G UACAGUUC	4433	GAACGTGA GGCTAGCTACAACGA TCACGCCT	21554
8552	UGAGUACA G UUCGACGU	4434	ACGTGCGA GGCTAGCTACAACGA TGTACTCA	21555
8559	AGUUCGAC G UGGACCA	4435	TGGTGCCA GGCTAGCTACAACGA GTCGAAT	21556
8562	UCGACGUG G CACCAGGA	4436	TCGTGGTG GGCTAGCTACAACGA CACGTGGA	21557
8606	CUAUCACG G CAGUUAUG	4437	CATAACTG GGCTAGCTACAACGA CGTGATAG	21558
8609	UCACGGCA G UUAUGAUG	4438	CATCATAA GGCTAGCTACAACGA TGCCGTGA	21559
8617	GUUAUGAU G UGAAGCCC	4439	GGGCTTCA GGCTAGCTACAACGA ATCATAAC	21560
8622	GAUGUGAA G CCCACAGG	4440	CCTGTGGG GGCTAGCTACAACGA TTCACATC	21561
8630	GCCCACAG G CUCCGCCA	4441	TGGCGGAG GGCTAGCTACAACGA CTGTGGGC	21562
8635	CAGGCUCC G CCAGUUCG	4442	CGAACTGG GGCTAGCTACAACGA GGAGCCTG	21563
8639	CUCCGCCA G UUCGUGG	4443	CCAGCGAA GGCTAGCTACAACGA TGGCGGAG	21564
8643	GCCAGUUC G CUGGUCAA	4444	TTGACCAG GGCTAGCTACAACGA GAACTGGC	21565
8647	GUUCGUG G UCAUUGGA	4445	TCCATTGA GGCTAGCTACAACGA CAGCGAAC	21566
8656	UCAUUGGA G UGGUCAGG	4446	CCTGACCA GGCTAGCTACAACGA TCCATTGA	21567
8659	AUGGAGUG G UCAGGCUC	4447	GAGCCTGA GGCTAGCTACAACGA CACTCCAT	21568
8664	GUGGUCAG G CUCCUCUC	4448	GAGAGGAG GGCTAGCTACAACGA CTGACCCAC	21569
8698	UCACGAU G UUACCACC	4449	GGTGGTAA GGCTAGCTACAACGA ATTCGTGA	21570

8710	CCACCAUG G CCAUGACU	4450	AGTCATGG GGCTAGCTACAACGA CATGGTGG	21571
8736	CCCUUCGG G CAGCAGCG	4451	CGCTGCTG GGCTAGCTACAACGA CCGAAGGG	21572
8739	UUCGGGCA G CAGCGAGU	4452	ACTCGCTG GGCTAGCTACAACGA TGCCCGAA	21573
8742	GGGCAGCA G CGAGUGUU	4453	AACACTCG GGCTAGCTACAACGA TCGTGCCC	21574
8746	AGCAGCGA G UGUUCAAA	4454	TTTGAACA GGCTAGCTACAACGA TCGTGCT	21575
8748	CAGCGAGU G UUCAAGA	4455	TCTTTGAA GGCTAGCTACAACGA ACTCGCTG	21576
8761	AAGAGAAG G UGGACACG	4456	CGTGTCCA GGCTAGCTACAACGA CTCTCTT	21577
8773	ACACGAAA G CUCCUGAA	4457	TTCAGGAG GGCTAGCTACAACGA TTTCGTGT	21578
8784	CCUGAACC G CCAGAAGG	4458	CCTTCTGG GGCTAGCTACAACGA GGTTCAGG	21579
8794	CAGAAGGA G UGAAGUAC	4459	GTACTTCA GGCTAGCTACAACGA TCCTTCTG	21580
8799	GGAGUGAA G UACGUGCU	4460	AGCAGTA GGCTAGCTACAACGA TTCACTCC	21581
8803	UGAAGUAC G UGCUCAAU	4461	ATTGAGCA GGCTAGCTACAACGA GTACTTCA	21582
8805	AAGUACGU G CUCAUAGA	4462	TCATTGAG GGCTAGCTACAACGA ACGTACTT	21583
8826	ACCAACUG G UUGUGGGC	4463	GCCCCAAA GGCTAGCTACAACGA CAGTTGGT	21584
8829	AACUGGUU G UGGGCGUU	4464	AACGCCCA GGCTAGCTACAACGA AACCAGTT	21585
8833	GGUUGUGG G CGUUUUUG	4465	CAAAAACG GGCTAGCTACAACGA CCACAACC	21586
8835	UUGUGGGC G UUUUUUGC	4466	GCCCCAAA GGCTAGCTACAACGA GCCCCAAA	21587
8842	CGUUUUUG G CCAGAGAA	4467	TTCTCTGG GGCTAGCTACAACGA CAAAACG	21588
8855	AGAAAAAC G UCCCAGAA	4468	TTCTGGGA GGCTAGCTACAACGA GTTTTTCT	21589
8865	CCCAGAAU G UGCUCUCG	4469	CGAGAGCA GGCTAGCTACAACGA ATTCTGGG	21590
8867	CAGAAUGU G CUCUCGAG	4470	CTCGAGAG GGCTAGCTACAACGA ACATTCTG	21591
8893	UAAGAAAG G UCAACAGC	4471	GCTGTTGA GGCTAGCTACAACGA CTTCCTTA	21592
8900	GGUCAACA G CAUUGCAG	4472	CTGCATTG GGCTAGCTACAACGA TGTGACC	21593
8905	ACAGCAAU G CAGCUUUG	4473	CAAAGCTG GGCTAGCTACAACGA ATTGCTGT	21594
8908	GCAAUGCA G CUUUGGGU	4474	ACCCAAAG GGCTAGCTACAACGA TGCATTGC	21595
8915	AGCUUUGG G UGCCAUGU	4475	ACATGGCA GGCTAGCTACAACGA CCAAAGCT	21596
8917	CUUUGGGU G CCAUGUUU	4476	AAACATGG GGCTAGCTACAACGA ACCCAAAG	21597
8922	GGUGCCAU G UUUGAAGA	4477	TCTTCAAA GGCTAGCTACAACGA ATGGCACC	21598
8931	UUUGAAGA G CAGAAUCA	4478	TGATTCTG GGCTAGCTACAACGA TCTTCAAA	21599
8948	AUGGAGGA G CGCCAGAG	4479	CTCTGGCG GGCTAGCTACAACGA TCCTCCAT	21600
8950	GGAGGAGC G CCAGAGAA	4480	TTCTCTGG GGCTAGCTACAACGA GCTCCTCC	21601
8959	CCAGAGAA G CAGUUGAA	4481	TTCAACTG GGCTAGCTACAACGA TTCTCTGG	21602
8962	GAGAAGCA G UUGAAGAU	4482	ATCTTCAA GGCTAGCTACAACGA TGCTTCTC	21603
8989	GGGAGAUG G UGAUGAG	4483	CTCATCCA GGCTAGCTACAACGA CATCTCCC	21604
9000	GAUGAGGA G CGCGAGGC	4484	GCCTCGCG GGCTAGCTACAACGA TCCTCATC	21605
9002	UGAGGAGC G CGAGGCAC	4485	GTGCCTCG GGCTAGCTACAACGA GCTCCTCA	21606
9007	AGCGCGAG G CACAUCUG	4486	CAGATGTG GGCTAGCTACAACGA CTCGCGCT	21607
9015	GCACAUCU G CGGGGGGA	4487	TCCCCCGG GGCTAGCTACAACGA AGATGTGC	21608
9026	GGGGGAU G UCACACUU	4488	AAGTGTGA GGCTAGCTACAACGA ATTCCCCC	21609
9035	UCACACUU G CAUUUACA	4489	TGTAATAT GGCTAGCTACAACGA AAGTGTGA	21610
9078	CCCGGAGA G UUCGGAAA	4490	TTTCCGAA GGCTAGCTACAACGA TCTCCGGG	21611
9088	UCGGAAAG G CCAAGGGA	4491	TCCCTTGG GGCTAGCTACAACGA CTTCCTGA	21612
9098	CAAGGGAA G CAGAGCCA	4492	TGGCTCTG GGCTAGCTACAACGA TTCCCTTG	21613
9103	GAAGCAGA G CCAUUGG	4493	CCAAATGG GGCTAGCTACAACGA TCTGCTTC	21614
9111	GCAUUGU G UUCAUGUG	4494	CACATGAA GGCTAGCTACAACGA CAAATGGC	21615
9117	UGGUUCAU G UGGCUCGG	4495	CCGAGCCA GGCTAGCTACAACGA ATGAACCA	21616
9120	UUAUGUG G CUCGAGC	4496	GCTCCGAG GGCTAGCTACAACGA CACATGAA	21617
9127	GGCUCGGA G CUCGCUU	4497	AAAGCGAG GGCTAGCTACAACGA TCCGAGCC	21618
9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GGCTAGCTACAACGA GAGCTCCG	21619
9141	UUUCUGGA G UUCGAGGC	4499	GCCTCGAA GGCTAGCTACAACGA TCCAGAAA	21620
9148	AGUUCGAG G CUCUGGGU	4500	ACCCAGAG GGCTAGCTACAACGA CTCGAACCT	21621
9155	GGCUCUGG G UUUUCUCA	4501	TGAGAAAA GGCTAGCTACAACGA CCGAGGCC	21622
9177	GACCACUG G CUUGGAAG	4502	CTTCCAAG GGCTAGCTACAACGA CAGTGGTC	21623
9203	AGGAGGAG G UGUCGAGG	4503	CCTCGACA GGCTAGCTACAACGA CTCCTCCT	21624
9205	GAGGAGGU G UCGAGGGC	4504	GCCCTCGA GGCTAGCTACAACGA ACCTCCTC	21625
9212	UGUCGAGG G CUUGGGCC	4505	GGCCCAAG GGCTAGCTACAACGA CCTCGACA	21626
9218	GGGCUUGG G CCUCCAAA	4506	TTTGGAGG GGCTAGCTACAACGA CCAAGCCC	21627
9233	AAAACUGG G UUAUAUCC	4507	GGATGTAA GGCTAGCTACAACGA CCAGTTTT	21628
9243	UACAUCU G CGUGAAGU	4508	ACTTCACG GGCTAGCTACAACGA AGGATGTA	21629
9245	CAUCCUGC G UGAAGUUG	4509	CAACTTCA GGCTAGCTACAACGA GCAGGATG	21630
9250	UGCGUGAA G UUGGCACC	4510	GGTGCCAA GGCTAGCTACAACGA TTCAGCA	21631
9254	UGAAGUUG G CACCCGGC	4511	GCCGGGTG GGCTAGCTACAACGA CAACTTCA	21632

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9261	GGCACCCG G CCUGGGG	4512	CCCCCAGG GGCTAGCTACAACGA CGGGTGCC	21633
9269	GCCUGGGG G CAAGAUCU	4513	AGATCTTG GGCTAGCTACAACGA CCCAGGC	21634
9280	AGAUCUAU G CUGAUGAC	4514	GTCATCAG GGCTAGCTACAACGA ATAGATCT	21635
9292	AUGACACA G CUGGCUGG	4515	CCAGCCAG GGCTAGCTACAACGA TGTGTCAT	21636
9296	CACAGCUG G CUGGGACA	4516	TGTCCCAG GGCTAGCTACAACGA CAGCTGTG	21637
9308	GGACACCC G CAUCACGA	4517	TCGTGATG GGCTAGCTACAACGA GGGTGTCC	21638
9319	UCAAGAGA G CUGACUUG	4518	CAAGTCAG GGCTAGCTACAACGA TCTCGTGA	21639
9337	AAAUGAA G CUAAGGUG	4519	CACCTTAG GGCTAGCTACAACGA TTCATTTT	21640
9343	AAGCUAAG G UGCUUGAG	4520	CTCAAGCA GGCTAGCTACAACGA CTTAGCTT	21641
9345	GCUAAGGU G CUUGAGCU	4521	AGCTCAAG GGCTAGCTACAACGA ACCTTAGC	21642
9351	GUGCUUGA G CUGCUUGA	4522	TCAAGCAG GGCTAGCTACAACGA TCAAGCAC	21643
9354	CUUGAGCU G CUUGAUGG	4523	CCATCAAG GGCTAGCTACAACGA AGCTCAAG	21644
9372	GAACAUCG G CGUCUUGC	4524	GCAAGACG GGCTAGCTACAACGA CGATGTTT	21645
9374	ACAUCGGC G UCUUGCCA	4525	TGGCAAGA GGCTAGCTACAACGA GCCGATGT	21646
9379	GGCGUCUU G CCAGGGCC	4526	GGCCCTGG GGCTAGCTACAACGA AAGACGCC	21647
9385	UUGCCAGG G CCAUCAUU	4527	AATGATGG GGCTAGCTACAACGA CCTGGCAA	21648
9396	AUCAUUGA G CUCACCUA	4528	TAGGTGAG GGCTAGCTACAACGA TCAATGAT	21649
9407	CACCUAUC G UCACAAAG	4529	CTTTGTGA GGCTAGCTACAACGA GATAGGTG	21650
9415	GUCACAAA G UUGUGAAA	4530	TTTCACAA GGCTAGCTACAACGA TTTGTGAC	21651
9418	ACAAAGUU G UGAAAGUG	4531	CACTTTCA GGCTAGCTACAACGA AACTTTGT	21652
9424	UUGUGAAA G UGAUGCGC	4532	GCGCATCA GGCTAGCTACAACGA TTTCACAA	21653
9429	AAAGUGAU G CGCCGGC	4533	GCCGGGCG GGCTAGCTACAACGA ATCATT	21654
9431	AGUGAUGC G CCGGCUG	4534	CAGCCGGG GGCTAGCTACAACGA GCATCACT	21655
9436	UGCGCCCG G CUGCUGAU	4535	ATCAGCAG GGCTAGCTACAACGA CGGGCGCA	21656
9439	GCCCGGCU G CUGAUGGA	4536	TCCATCAG GGCTAGCTACAACGA AGCCGGGC	21657
9454	GAAGAACC G UCAUGGAU	4537	ATCCATGA GGCTAGCTACAACGA GGTTCCTC	21658
9463	UCAUGGAU G UUAUCUCC	4538	GGAGATAA GGCTAGCTACAACGA ATCCATGA	21659
9491	GAGGGGGA G UGGACAAG	4539	CTTGTCCA GGCTAGCTACAACGA TCCCCTC	21660
9499	GUGGACAA G UUGUCACC	4540	GGTGACAA GGCTAGCTACAACGA TTGTCCAC	21661
9502	GACAAGUU G UCACCUAC	4541	GTAGGTGA GGCTAGCTACAACGA AACTTGTC	21662
9511	UCACCUAC G CCCUAAAC	4542	GTTTAGGG GGCTAGCTACAACGA GTAGGTGA	21663
9535	CCAACCUG G CCGUCCAG	4543	CTGGACGG GGCTAGCTACAACGA CAGGTTGG	21664
9538	ACCUGGCC G UCCAGCUG	4544	CAGCTGGA GGCTAGCTACAACGA GGCCAGGT	21665
9543	GCCGUCCA G CUGGUGAG	4545	CTCACCAG GGCTAGCTACAACGA TGGACGGC	21666
9547	UCCAGCUG G UGAGGAUG	4546	CATCTCA GGCTAGCTACAACGA CAGCTGGA	21667
9571	GGGAAGGA G UGAUUGGC	4547	GCCAAATCA GGCTAGCTACAACGA TCCTTCCC	21668
9578	AGUGAUUG G CCCAGAUG	4548	CATCTGGG GGCTAGCTACAACGA CAATCACT	21669
9589	CAGAUGAU G UGGAGAAA	4549	TTTCTCCA GGCTAGCTACAACGA ATCATCTG	21670
9622	GACCCAAA G UCAGACC	4550	GGTCTGGA GGCTAGCTACAACGA TTTGGGTC	21671
9633	AGGACCUG G CUGUUUGA	4551	TCAAACAG GGCTAGCTACAACGA CAGGTCTT	21672
9636	ACCUGGCU G UUUGAGAA	4552	TTCTCAA GGCTAGCTACAACGA AGCCAGGT	21673
9662	AAGACUCA G CCGCAUGG	4553	CCATGCGG GGCTAGCTACAACGA TGAGTCTT	21674
9665	ACUCAGCC G CAUGGCUG	4554	CAGCCATG GGCTAGCTACAACGA GGCTGAGT	21675
9670	GCCGCAUG G CUGUCAGU	4555	ACTGACAG GGCTAGCTACAACGA CATGCGGC	21676
9673	GCAUGGCU G UCAGUGGA	4556	TCCACTGA GGCTAGCTACAACGA AGCCATGC	21677
9677	GGCUGUCA G UGGAGAUG	4557	CATCTCCA GGCTAGCTACAACGA TGACAGCC	21678
9689	AGAUGACU G UGUGGUA	4558	TTACCACA GGCTAGCTACAACGA AGTCATCT	21679
9691	AUGACUGU G UGGUAAAG	4559	CTTTACCA GGCTAGCTACAACGA ACAGTCAT	21680
9694	ACUGUGUG G UAAAGCCC	4560	GGGCTTTA GGCTAGCTACAACGA CACACAGT	21681
9699	GUGGUAAA G CCCUGGA	4561	TCCAGGGG GGCTAGCTACAACGA TTTACCAC	21682
9713	GGACGAUC G CUUUGCCA	4562	TGGCAAAG GGCTAGCTACAACGA GATCGTCC	21683
9718	AUCGCUUU G CCACCUCG	4563	CGAGGTGG GGCTAGCTACAACGA AAAGCGAT	21684
9726	GCCACCUC G CUCCACUU	4564	AAGTGGAG GGCTAGCTACAACGA GAGGTGGC	21685
9742	UCCUCAAU G CUAUGUCA	4565	TGACATAG GGCTAGCTACAACGA ATTGAGGA	21686
9747	AAUGCUAU G UCAAAGGU	4566	ACCTTTGA GGCTAGCTACAACGA ATAGCATT	21687
9754	UGUCAAG G UUCGAAA	4567	TTTGCGAA GGCTAGCTACAACGA CTTTGACA	21688
9758	AAAGGUUC G CAAAGACA	4568	TGTCCTTG GGCTAGCTACAACGA GAACCTTT	21689
9774	AUCCAAGA G UGGAACC	4569	GGTTTCCA GGCTAGCTACAACGA TCTTGGAT	21690
9783	UGGAAACC G UCAACUGG	4570	CCAGTTGA GGCTAGCTACAACGA GGTTTCCA	21691
9795	ACUGGAUG G UAUGAUUG	4571	CAATCATA GGCTAGCTACAACGA CATCCAGT	21692
9804	UAUGAUUG G CAGCAGGU	4572	ACCTGCTG GGCTAGCTACAACGA CAATCATA	21693
9807	GAUUGGCA G CAGGUUCC	4573	GGAACCTG GGCTAGCTACAACGA TGCCAATC	21694

9811	GGCAGCAG G UUCAUUT	4574	AAATGGAA GGCTAGCTACAACGA CTGCTGCC	21695
9821	UCCAUIUUU G CUCAAACC	4575	GGTTTGGAG GGCTAGCTACAACGA AAAATGGA	21696
9868	GAACACUG G UGUUCCA	4576	TGGAACCA GGCTAGCTACAACGA CAGTGTTC	21697
9871	CACUGGUG G UUCAUGC	4577	GCATGGAA GGCTAGCTACAACGA CACCAGTG	21698
9878	GGUCCAU G CCGAGGAC	4578	GTCCTCGG GGCTAGCTACAACGA ATGGAACC	21699
9898	AUGAAUUG G UAGGCAGA	4579	TCTGCCTA GGCTAGCTACAACGA CAATTCAT	21700
9902	AUUGGUAG G CAGAGCUC	4580	GAGCTCTG GGCTAGCTACAACGA CTACCAAT	21701
9907	UAGGCAGA G CUCGCAUA	4581	TATGCGAG GGCTAGCTACAACGA TCTGCCTA	21702
9911	CAGAGCUC G CAUAUCUC	4582	GAGATATG GGCTAGCTACAACGA GAGCTCTG	21703
9925	CUCCAGGG G CCGGAUGG	4583	CCATCCGG GGCTAGCTACAACGA CCCTGGAG	21704
9937	GAUGGAAC G UCCGCGAC	4584	GTCGCGGA GGCTAGCTACAACGA GTTCCATC	21705
9941	GAACGUCC G CGACACUG	4585	CAGTGTCTG GGCTAGCTACAACGA GGACGTTT	21706
9949	GCGACACU G CUUGUCUG	4586	CAGACAAG GGCTAGCTACAACGA AGTGTGCG	21707
9953	CACUGCUU G UCUGGCUA	4587	TAGCCAGA GGCTAGCTACAACGA AAGCAGTG	21708
9958	CUUGUCUG G CUAAGUCU	4588	AGACTTAG GGCTAGCTACAACGA CAGACAAG	21709
9963	CUGGCUA A UCUAUUGC	4589	GCATAAGA GGCTAGCTACAACGA TTAGCCAG	21710
9970	AGUCUUAU G CCCAGAUG	4590	CATCTGGG GGCTAGCTACAACGA ATAAGACT	21711
9978	GCCCAGAU G UGGCUGCU	4591	AGCAGCCA GGCTAGCTACAACGA ATCTGGGC	21712
9981	CAGAUUG G CUGCUUCU	4592	AGAAGCAG GGCTAGCTACAACGA CACATCTG	21713
9984	AUGUGGCU G CUUCUGUA	4593	TACAGAAG GGCTAGCTACAACGA AGCCACAT	21714
9990	CUGCUUCU G UACUCCA	4594	TGGAAGTA GGCTAGCTACAACGA AGAAGCAG	21715
10011	AGAGACCU G CGGCUCAU	4595	ATGAGCCG GGCTAGCTACAACGA AGGTCTCT	21716
10014	GACCUGCG G CUCAUGGC	4596	GCCATGAG GGCTAGCTACAACGA CGCAGGTC	21717
10021	GGCUCAUG G CCAACGCC	4597	GGCGTTGG GGCTAGCTACAACGA CATGAGCC	21718
10027	UGGCCAAC G CCAUUGC	4598	GCAATGG GGCTAGCTACAACGA GTTGGCCA	21719
10034	CGCCAUUU G CUCCGUG	4599	CAGCGGAG GGCTAGCTACAACGA AAATGGCG	21720
10039	UUUGCUCC G CUGUCCU	4600	AGGGACAG GGCTAGCTACAACGA GGAGCAAA	21721
10042	GCUCCGCU G UCCUGUG	4601	CACAGGGA GGCTAGCTACAACGA AGCGGAGC	21722
10048	CUGUCCU G UGAAUUGG	4602	CCAATTCA GGCTAGCTACAACGA AGGGACAG	21723
10057	UGAAUUG G UCCCUACC	4603	GGTAGGGA GGCTAGCTACAACGA CCAATTCA	21724
10077	AGAACCAC G UGUCCAU	4604	ATGGACCA GGCTAGCTACAACGA GTGGTTCT	21725
10080	ACCAGUG G UCCAUCCA	4605	TGGATGGA GGCTAGCTACAACGA CACGTGGT	21726
10090	CCAUCCAU G CAGGAGGA	4606	TCCTCCTG GGCTAGCTACAACGA ATGGATGG	21727
10101	GGAGGAGA G UGGAUGAC	4607	GTCTCCA GGCTAGCTACAACGA TCTCTCTC	21728
10122	GAGGACAU G UUGGAGGU	4608	ACCTCCAA GGCTAGCTACAACGA ATGTCTCT	21729
10129	UGUUGGAG G UCUGGAAC	4609	GTTCCAGA GGCTAGCTACAACGA CTCCAACA	21730
10139	CUGGAACC G UGUUUGGA	4610	TCCAACA GGCTAGCTACAACGA GGTTCCAG	21731
10141	GGAACCGU G UUGGAUA	4611	TATCCAAA GGCTAGCTACAACGA ACGGTTTC	21732
10183	AAACCCCA G UGGAGAAA	4612	TTTCTCCA GGCTAGCTACAACGA TGGGTTT	21733
10196	GAAUUGGA G UGACGUCC	4613	GGACGTCA GGCTAGCTACAACGA TCCATTTT	21734
10201	GGAGUGAC G UCCAUUAU	4614	ATATGGGA GGCTAGCTACAACGA GTCCTCTC	21735
10233	GACAUCUG G UUGGCGAG	4615	CTGCCACA GGCTAGCTACAACGA CAGATGTC	21736
10235	CAUCUGGU G UGGCAGCC	4616	GGCTGCCA GGCTAGCTACAACGA ACCAGATG	21737
10238	CUGGUGUG G CAGCCUGA	4617	TCAGGCTG GGCTAGCTACAACGA CACACCAG	21738
10241	GUGUGGCA G CCUGAUUG	4618	CAATCAGG GGCTAGCTACAACGA TGCCACAC	21739
10250	CCUGAUUG G CACAAGAG	4619	CTCTTG TG GGCTAGCTACAACGA CAATCAGG	21740
10258	GCACAAGA G CCGAGCC	4620	GGCTCGGG GGCTAGCTACAACGA TCTTGTC	21741
10264	GAGCCCGA G CCACGUGG	4621	CCACGTGG GGCTAGCTACAACGA TCGGGCTC	21742
10269	CGAGCCAC G UGGGCAGA	4622	TCTGCCCA GGCTAGCTACAACGA GTGGCTCG	21743
10273	CCACGUGG G CAGAAAAC	4623	GTTTTCTG GGCTAGCTACAACGA CCACGTGG	21744
10288	ACAUCCAG G UGGCUAUC	4624	GATAGCCA GGCTAGCTACAACGA CTGGATGT	21745
10291	UCCAGGUG G CUAUCAAC	4625	GTTGATAG GGCTAGCTACAACGA CACCTGGA	21746
10303	UCAACCAA G UCAGAGCA	4626	TGCTCTGA GGCTAGCTACAACGA TTGGTTGA	21747
10309	AAGUCAGA G CAAUCAUC	4627	GATGATTG GGCTAGCTACAACGA TCTGACTT	21748
10329	GAUGAGAA G UAUGUGGA	4628	TCCACATA GGCTAGCTACAACGA TTCTCATC	21749
10333	AGAAGUAU G UGGAUAC	4629	GTAATCCA GGCTAGCTACAACGA ATACTTCT	21750
10346	UUACAUGA G UUCACUAA	4630	TTAGTGAA GGCTAGCTACAACGA TCATGTAA	21751
10378	CAACUUG G UUGAGGAC	4631	GTCCTCAA GGCTAGCTACAACGA CAAAGTTG	21752
10390	AGGACACA G UACUGUAG	4632	CTACAGTA GGCTAGCTACAACGA TGTGTCCT	21753
10395	ACAGUACU G UAGAUUU	4633	AAATCTTA GGCTAGCTACAACGA AGTACTGT	21754
10413	AAUCAUUU G UAAUAGA	4634	TCTATTTA GGCTAGCTACAACGA AATTGATT	21755
10430	CAUAUAAA G UAUGCAUA	4635	TATGCATA GGCTAGCTACAACGA TTATATTG	21756

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10434	AUAAGUAAU G CAUAAAAG	4636	CTTTTATG GGCTAGCTACAACGA ATACTTAT	21757
10442	GCAUAAAA G UGUAGUUU	4637	AAACTACA GGCTAGCTACAACGA TTTTATGC	21758
10444	AUAAAAGU G UAGUUUUA	4638	TAAAACTA GGCTAGCTACAACGA ACTTTTAT	21759
10447	AAAGUGUA G UUUUAUAG	4639	CTATAAAA GGCTAGCTACAACGA TACACTTT	21760
10455	GUUUUAUA G UAGUAUUU	4640	AAATACTA GGCTAGCTACAACGA TATAAAAC	21761
10458	UUAUAGUA G UAUUUAGU	4641	ACTAAATA GGCTAGCTACAACGA TACTATAA	21762
10465	AGUAUUUA G UGGUGUUA	4642	TAACACCA GGCTAGCTACAACGA TAAATACT	21763
10468	AUUUAGUG G UGUUAGUG	4643	CACTAACA GGCTAGCTACAACGA CACTAAAT	21764
10470	UUAGUGGU G UUAGUGUA	4644	TACACTAA GGCTAGCTACAACGA ACCACTAA	21765
10474	UGGUGUUA G UGUAAAUA	4645	TATTTACA GGCTAGCTACAACGA TAACACCA	21766
10476	GUGUUAU G UAAAUAGU	4646	ACTATTTA GGCTAGCTACAACGA ACTAACAC	21767
10483	UGUAAUAU G UUAAGAAA	4647	TTTCTTAA GGCTAGCTACAACGA TATTTACA	21768
10506	AGGAGAAA G UCAGGCCG	4648	CGGCCTGA GGCTAGCTACAACGA TTTCTCCT	21769
10511	AAAGUCAG G CCGGGAAG	4649	CTTCCCGG GGCTAGCTACAACGA CTGACTTT	21770
10519	GCCGGGAA G UUCCCGCC	4650	GGCGGGAA GGCTAGCTACAACGA TTCCCGGC	21771
10525	AAGUCCCC G CCACCGGA	4651	TCCGGTGG GGCTAGCTACAACGA GGGAACTT	21772
10535	CACCGGAA G UUGAGUAG	4652	CTACTCAA GGCTAGCTACAACGA TTCCGGTG	21773
10540	GAAGUUGA G UAGACGGU	4653	ACCGTCTA GGCTAGCTACAACGA TCAACTTC	21774
10547	AGUAGACG G UGCUGCCU	4654	AGGCAGCA GGCTAGCTACAACGA CGTCTACT	21775
10549	UAGACGGU G CUGCCUGC	4655	GCAGGCAG GGCTAGCTACAACGA ACCGTCTA	21776
10552	ACGGUGCU G CCUGCGAC	4656	GTCGCAGG GGCTAGCTACAACGA AGCACCCT	21777
10556	UGCUGCCU G CGACUCAA	4657	TTGAGTCG GGCTAGCTACAACGA AGGCAGCA	21778
10580	AGGACUGG G UGAACAAA	4658	TTTGTTC A GGCTAGCTACAACGA CCAGTCTT	21779
10589	UGAACAAA G CCGCGAAG	4659	CTTCGCGG GGCTAGCTACAACGA TTTGTTC A	21780
10592	ACAAAGCC G CGAAGUGA	4660	TCACCTCG GGCTAGCTACAACGA GGCTTTGT	21781
10597	GCCGCGAA G UGAUCCAU	4661	ATGGATCA GGCTAGCTACAACGA TTCGCGGC	21782
10606	UGAUCCAU G UAAGCCCU	4662	AGGGCTTA GGCTAGCTACAACGA ATGGATCA	21783
10610	CCAUGUAA G CCCUCAGA	4663	TCTGAGGG GGCTAGCTACAACGA TTACATGG	21784
10622	UCAGAACC G UCUCGGAA	4664	TTCCGAGA GGCTAGCTACAACGA GGTCTCTGA	21785
10645	CCCCACAU G UUGUAACU	4665	AGTTACAA GGCTAGCTACAACGA ATGTGGGG	21786
10648	CACAUUUU G UAAUUAUA	4666	TGAAGTTA GGCTAGCTACAACGA AACATGTG	21787
10659	ACUUCAAA G CCCAUGU	4667	ACATTGGG GGCTAGCTACAACGA TTTGAAGT	21788
10666	AGCCCAAU G UCAGACCA	4668	TGGTCTGA GGCTAGCTACAACGA ATTGGGCT	21789
10676	CAGACCAC G CUACGGCG	4669	CGCCGTAG GGCTAGCTACAACGA GTGGTCTG	21790
10682	ACGCUACG G CGUGCUAC	4670	GTAGCAGG GGCTAGCTACAACGA CGTAGCGT	21791
10684	GUACGGC G UGUACUC	4671	GAGTAGCA GGCTAGCTACAACGA GCCGTAGC	21792
10686	UACGGCGU G CUACUCUG	4672	CAGAGTAG GGCTAGCTACAACGA ACGCCGTA	21793
10694	GCUACUCU G CGGAGAGU	4673	ACTCTCCG GGCTAGCTACAACGA AGAGTAGC	21794
10701	UGCGGAGA G UGCAGUCU	4674	AGACTGCA GGCTAGCTACAACGA TCTCCGCA	21795
10703	CGGAGAGU G CAGUCUGC	4675	GCAGACTG GGCTAGCTACAACGA ACTCTCCG	21796
10706	AGAGUGCA G UCUGCGAU	4676	ATCGCAGA GGCTAGCTACAACGA TGCACTCT	21797
10710	UGCAGUCU G CGAUAGUG	4677	CACTATCG GGCTAGCTACAACGA AGACTGCA	21798
10716	CUGCGAUA G UGCCCCAG	4678	CTGGGGCA GGCTAGCTACAACGA TATCGCAG	21799
10718	CGGAUAGU G CCCCAGGA	4679	TCCTGGGG GGCTAGCTACAACGA ACTATCGC	21800
10734	AGGACUGG G UUAACAAA	4680	TTTGTTAA GGCTAGCTACAACGA CCACTCCT	21801
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10761	CGCCCCAC G CGGCCCUA	4683	TAGGGCCG GGCTAGCTACAACGA GTGGGGCG	21804
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10770	CGGCCCUA G CCCCGGUA	4685	TACCGGGG GGCTAGCTACAACGA TAGGGCCG	21806
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10824	GAGACCCC G CGGUUUA	4691	TTAAACCG GGCTAGCTACAACGA GGGGTCTC	21812
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10834	GGUUUAAA G UGCACGGC	4693	GCCGTGCA GGCTAGCTACAACGA TTAAACCC	21814
10836	UUUAAAGU G CACGGCCC	4694	GGGCGGTG GGCTAGCTACAACGA ACTTTAAA	21815
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10846	ACGGCCCA G CCUGACUG	4696	CAGTCAGG GGCTAGCTACAACGA TGGGCGGT	21817
10857	UGACUGAA G CUGUAGGU	4697	ACCTACAG GGCTAGCTACAACGA TTCAGTCA	21818

10860	CUGAAGCU G UAGGUCAG	4698	CTGACCTA GGCTAGCTACAACGA AGCTTCAG	21819
10864	AGCUGUAG G UCAGGGGA	4699	TCCCCTGA GGCTAGCTACAACGA CTACAGCT	21820
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10924	ACAAAACA G CAUAUUGA	4704	TCAATATG GGCTAGCTACAACGA TGTTTTGT	21825
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10965	UCUGUCU G CACAACCA	4706	TGGTTGTG GGCTAGCTACAACGA AGAGCAGA	21827
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11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GGCTAGCTACAACGA CATTGTGG	21833
11004	CAUUGGUG G CUGGUGGU	4713	ACCACCAG GGCTAGCTACAACGA CACCATTG	21834
11008	GGUGGCGU G UGGUGCGA	4714	TCGCACCA GGCTAGCTACAACGA CAGCCACC	21835
11011	GGCUGGUG G UGCGAGAA	4715	TTCTCGCA GGCTAGCTACAACGA CACGAGCC	21836
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27	GCUGACAA A CUUAGUAG	4718	CTACTAAG GGCTAGCTACAACGA TGTCAGC	21839
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54	GAUUAACA A CAAUUAAC	4721	GTTAATTG GGCTAGCTACAACGA TGTTAATC	21842
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97	AGAUCUCG A UGUCUAG	4725	CTTAGACA GGCTAGCTACAACGA CGAGATCT	21846
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157	AACGCGGA A UGCCCCGC	4729	GCGGGCCA GGCTAGCTACAACGA TCCGCTT	21850
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231	CCAAUACG A UUUGUGUU	4735	AACACAAA GGCTAGCTACAACGA CGTATTGG	21856
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322	ACAAACAA A CAGCGAUG	4742	CATCGCTG GGCTAGCTACAACGA CGTGTGTT	21863
328	AAACAGCG A UGAAACAC	4743	GTGTTTCA GGCTAGCTACAACGA CGTGTGTT	21864
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421	GAGGAAAG A CCGGAUUU	4750	AATTCGGG GGCTAGCTACAACGA CTTCTCTC	21871
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538	UCAUCACG A UUCAACA	4761	TGTTGGAA GGCTAGCTACAACGA CGTGATGA	21882
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2390	GGGCAUCA A UGCUCGUG	4875	CACGAGCA GGCTAGCTACAACGA TGATGCCC	21996
2399	UGCUCGUG A UAGGUCCA	4876	TGGACCTA GGCTAGCTACAACGA CACGAGCA	21997
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2850	GCACCAGA A CUCGCCAA	4899	TTGGCGAG GGCTAGCTACAACGA TCTGGTGC	22020
2858	ACUCGCCA A CAACACCU	4900	AGGTGTTG GGCTAGCTACAACGA TGGCGAGT	22021
2861	CGCCAACA A CACCUUUG	4901	CAAAGGTG GGCTAGCTACAACGA TGTGGCG	22022
2876	UGUGGUGG A UGGUCCGG	4902	CCGGACCA GGCTAGCTACAACGA CAACCACA	22023
2887	GUCCGGAG A CCAAGGAA	4903	TTCTTGGG GGCTAGCTACAACGA CTCGGGAC	22024
2895	ACCAAGGA A UGUCCGAC	4904	GTGGGAGA GGCTAGCTACAACGA TCCTTGGT	22025
2902	AAUGUCCG A CUCAGAAU	4905	ATTCTGAG GGCTAGCTACAACGA CGGACATT	22026
2909	GACUCAGA A UCGCGCUU	4906	AAGCGCGA GGCTAGCTACAACGA TCTGAGTC	22027
2921	CGCUUGGA A UAGCUUAG	4907	CTAAGCTA GGCTAGCTACAACGA TCCAAGCG	22028
2939	AGUGGAGG A UUUUGGAU	4908	ATCCAAAA GGCTAGCTACAACGA CCTCCACT	22029
2946	GAUUUGG A UUUGGUCU	4909	AGACCAA GGCTAGCTACAACGA CCAAATC	22030
2968	GCACUCGG A UGUUCCUG	4910	CAGGAACA GGCTAGCTACAACGA CCGAGTGC	22031
2993	AGAGAGCA A CACAACUG	4911	CAGTTGTG GGCTAGCTACAACGA TGCTCTCT	22032
2998	GCAACACA A CUGAAUGU	4912	ACATTCTG GGCTAGCTACAACGA TGTGTTGC	22033
3003	ACAACUGA A UGUGACUC	4913	GAGTCACA GGCTAGCTACAACGA TCAGTTGT	22034
3008	UGAAUGUG A CUCGAAGA	4914	TCTTCGAG GGCTAGCTACAACGA CACATTCA	22035
3016	ACUCGAAG A UCAUUGGA	4915	TCCAATGA GGCTAGCTACAACGA CTTGAGT	22036
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3038	UGUCAAGA A CAACUUGG	4917	CCAAGTTG GGCTAGCTACAACGA TCTTGACA	22038
3041	CAAGAACA A CUUGGCGA	4918	TCGCCAAG GGCTAGCTACAACGA TGTCTTGT	22039
3049	ACUUGGCG A UCCACAGU	4919	ACTGTGGA GGCTAGCTACAACGA CGCCAAGT	22040
3059	CCACAGUG A CCUGUCCU	4920	AGGACAGG GGCTAGCTACAACGA CACTGTGG	22041
3073	CCUAUUGG A UUGAAAGC	4921	GCTTTCAA GGCTAGCTACAACGA CCAATAGG	22042
3089	CAGGCUCA A UGAUACGU	4922	ACGTATCA GGCTAGCTACAACGA TGAGCCTG	22043
3092	GCUCAUUG A UACUGUGA	4923	TCCACGTA GGCTAGCTACAACGA CATTGAGC	22044
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3151	GGCCUGAG A CGCAUACC	4925	GGTATGCG GGCTAGCTACAACGA CTCAGGCC	22046
3170	GUGGGGCG A UGGAUCC	4926	GGATTCCA GGCTAGCTACAACGA CGCCCCAC	22047
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3188	UGAGAGUG A CUUGAUAA	4928	TTATCAAG GGCTAGCTACAACGA CACTCTCA	22049
3193	GUGACUUG A UAAUACCA	4929	TGGTATTA GGCTAGCTACAACGA CAAGTCAC	22050
3196	ACUUGAUA A UACCAGUC	4930	GACTGGTA GGCTAGCTACAACGA TATCAAGT	22051
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3227	ACGAAGCA A UCACAUUC	4932	GATTGTGA GGCTAGCTACAACGA TGCTTCGT	22053
3233	CAUUCACA A UCGGAGAC	4933	GTCTCCGA GGCTAGCTACAACGA TGTGATTG	22054
3240	AAUCGGAG A CCUGGGUA	4934	TACCCAGG GGCTAGCTACAACGA CTCCGATT	22055
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3292	GGGUAGAG A UUGACUUC	4938	GAAGTCAA GGCTAGCTACAACGA CTCTACCC	22059
3296	AGAGAUUG A CUUCGAUU	4939	AATCGAAG GGCTAGCTACAACGA CAATCTCT	22060
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3345	AGCUGCGG A CACCGUGG	4942	CCACGGTG GGCTAGCTACAACGA CCGCAGCT	22063
3354	CACCGUGG A CCUGCCAC	4943	GTGGCAGG GGCTAGCTACAACGA CCACGGTG	22064
3391	GAAAGUUG A UAACAGAU	4944	ATCTGTTA GGCTAGCTACAACGA CAACTTTC	22065
3394	AGUUGAUA A CAGAUUGG	4945	CCAATCTG GGCTAGCTACAACGA TATCAACT	22066

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3446	CCAAACUG A CAGCGGCU	4948	AGCCGCTG GGCTAGCTACAACGA CAGTTTGG	22069
3472	GUAUGGAG A UCAGACCA	4949	TGGTCTGA GGCTAGCTACAACGA CTCCATAC	22070
3477	GAGAUAG A CCACAGAG	4950	CTCTGTGG GGCTAGCTACAACGA CTGATCTC	22071
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3491	GAGACAUG A UGAAAAGA	4952	TCTTTTCA GGCTAGCTACAACGA CATGTCTC	22073
3499	AUGAAAAG A CCCUCGUG	4953	CACGAGGG GGCTAGCTACAACGA CTTTTCAT	22074
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3541	CUGAUUAG A UUGACCCU	4957	AGGGTCAA GGCTAGCTACAACGA CATATCAG	22078
3545	UAUGAUUG A CCCUUUUC	4958	GAAAAGGG GGCTAGCTACAACGA CAATCATA	22079
3610	AGAGGUGG A CAGCCAAG	4959	CTTGGCTG GGCTAGCTACAACGA CCACCTCT	22080
3619	CAGCCAAG A UCAGCAUG	4960	CATGCTGA GGCTAGCTACAACGA CTTGGCTG	22081
3640	CUAUACUG A UUGCUCUG	4961	CAGAGCAA GGCTAGCTACAACGA CAGTATAG	22082
3683	UUACACUG A UGUGUUA	4962	GTAACACA GGCTAGCTACAACGA CAGTGTA	22083
3726	UUCGCAGA A UCUAUUC	4963	GAATTAGA GGCTAGCTACAACGA TCTGCGAA	22084
3731	AGAAUCUA A UUCGGGAG	4964	CTCCCGAA GGCTAGCTACAACGA TAGATTCT	22085
3743	GGGAGGAG A CGUGGUAC	4965	GTACCACG GGCTAGCTACAACGA CTCCTCCC	22086
3769	UCAUGGCG A CCUUAAG	4966	CTTGAAGG GGCTAGCTACAACGA CGCCATGA	22087
3778	CCUUAAG A UACAACCA	4967	TGGTTGTA GGCTAGCTACAACGA CTTGAAGG	22088
3783	AAGAUACA A CCAGUGUU	4968	AACATGGG GGCTAGCTACAACGA TGTATCTT	22089
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3847	UUUUGUUG A UGUUGGCG	4973	CGCCAACA GGCTAGCTACAACGA CAACAAA	22094
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3884	UUAUCACG A UGCCC GCC	4975	GGCGGGCA GGCTAGCTACAACGA CGTGATA	22096
3895	CCCCGCAA A UUCUGCUC	4976	GAGCAGAA GGCTAGCTACAACGA TTGGCGGG	22097
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3949	CUUGGAUG A UACUGAGA	4981	TCTCAGTA GGCTAGCTACAACGA CATCCAAG	22102
3964	GAGCCAUA A CAUUCACA	4982	TGTGAATG GGCTAGCTACAACGA TATGGCTC	22103
3973	CAUUCACA A CGACAUA	4983	TGATGTCG GGCTAGCTACAACGA TGTGAATG	22104
3976	UCACAACG A CAUCAAAC	4984	GTTTGATG GGCTAGCTACAACGA CGTTGTGA	22105
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4231	GGCCCGCA A CUGAAGUG	5004	CACCTCAG GGCTAGCTACAACGA TGCGGGCC	22125
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4243	AAGUGAUG A CAGCUGUC	5006	GACAGCTG GGCTAGCTACAACGA CATCACTT	22127
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5725	GGAUAGAG A UUGCCCUU	5120	AAGGGCAA GGCTAGCTACAACGA CTCATTCC	22241
5742	UGCCUACA A CGUGCUGG	5121	CCAGCAGG GGCTAGCTACAACGA TGTAGCCA	22242
5766	GUAGUCCA A UUGAACAG	5122	CTGTTCAA GGCTAGCTACAACGA TGGACTAC	22243
5771	CCAAUUGA A CAGAAAGU	5123	ACTTCTG GGCTAGCTACAACGA TCAATTGG	22244
5788	CGUACGAG A CGGAGUAC	5124	GTACTCCG GGCTAGCTACAACGA CTCGTACG	22245
5802	UACCCAAA A UGUAGAA	5125	TTCTTACA GGCTAGCTACAACGA TTTGGGTA	22246
5810	AUGUAAGA A CGAUGAUU	5126	AATCATCG GGCTAGCTACAACGA TCTTACAT	22247
5813	UAAGAACG A UGAUUGGG	5127	CCCAATCA GGCTAGCTACAACGA CGTTCTTA	22248
5816	GAACGAUG A UUGGGACU	5128	AGTCCCAA GGCTAGCTACAACGA CATCGTTC	22249
5822	UGAUUGGG A CUUUGUUA	5129	TAACAAAG GGCTAGCTACAACGA CCAATCA	22250
5836	UUAUCACA A CAGACAU	5130	TATGTCTG GGCTAGCTACAACGA TGTGATA	22251
5840	CACAACAG A CAUAUCUG	5131	CAGATATG GGCTAGCTACAACGA CTGTTGTG	22252

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5861	GGGGGCUA A CUUCAAGG	5133	CCTTGAAG GGCTAGCTACAACGA TAGCCCCC	22254
5881	GCAGGGUG A UUGACAGC	5134	GCTGTCAA GGCTAGCTACAACGA CACCCTGC	22255
5885	GGUGAUUG A CAGCCGGA	5135	TCCGGCTG GGCTAGCTACAACGA CAATCACC	22256
5904	AGUGUGAA A CCAACCAU	5136	ATGGTTGG GGCTAGCTACAACGA TTCACACT	22257
5908	UGAAACCA A CCAUCAUA	5137	TATGATGG GGCTAGCTACAACGA TGTGTTCA	22258
5917	CCAUCAUA A CAGAAGGA	5138	TCCTTCTG GGCTAGCTACAACGA TATGATGG	22259
5938	GGAGAGUG A UCCUGGGA	5139	TCCCAGGA GGCTAGCTACAACGA CACTCTCC	22260
5949	CUGGGAGA A CCAUCUGC	5140	GCAGATGG GGCTAGCTACAACGA TCTCCCAG	22261
5962	CUGCAGUG A CAGCAGCU	5141	AGCTGCTG GGCTAGCTACAACGA CACTGCAG	22262
5985	GCCAGAG A CGUGGACG	5142	CGTCCACG GGCTAGCTACAACGA CTCTGGGC	22263
5991	AGACGUGG A CGUAUCGG	5143	CCGATACG GGCTAGCTACAACGA CCACGTCT	22264
6005	CGGUAGAA A UCCGUCGC	5144	GCGACGGA GGCTAGCTACAACGA TTCTACCG	22265
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6050	GCACACGA A UGAAGACG	5146	CGTCTTCA GGCTAGCTACAACGA TCGTGTGC	22267
6056	GAAUGAAG A CGACUCGA	5147	TCGAGTCG GGCTAGCTACAACGA CTTCATTG	22268
6059	UGAAGACG A CUCGAACU	5148	AGTTCGAG GGCTAGCTACAACGA CGTCTTCA	22269
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6079	CCCAUUGG A CUGAGGCA	5150	TGCCTCAG GGCTAGCTACAACGA CCAATGGG	22271
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6173	UACCAUGG A UGGGGAU	5160	ATTCCCA GGCTAGCTACAACGA CCATGGTA	22281
6180	GAUGGGGA A UACCGGCU	5161	AGCCGGTA GGCTAGCTACAACGA TCCCCATC	22282
6209	GAGAAAAA A CUUUCUGG	5162	CCAGAAAG GGCTAGCTACAACGA TTTTCTC	22283
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6290	AUACCACG A CCGGAGGU	5166	ACCTCCGG GGCTAGCTACAACGA CGTGGTAT	22287
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6778	GAACGAAG A UCGCCGGA	5196	TCGGGCGA GGCTAGCTACAACGA CTTGTTTC	22317
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9191	AAGAAAGA A CUCAGGAG	5341	CTCCTGAG GGCTAGCTACAACGA TCTTCTCT	22462
9228	CUCCAAAA A CUGGGUUA	5342	TAACCCAG GGCTAGCTACAACGA TTTGGGAG	22463
9274	GGGCAAG A UCUAUGCU	5343	AGCATAGA GGCTAGCTACAACGA CTGCCCC	22464
9284	CUAUGCUG A UGACACAG	5344	CTGTGTCA GGCTAGCTACAACGA CAGCATAG	22465
9287	UGCUGAUG A CACAGCUG	5345	CAGCTGTG GGCTAGCTACAACGA CATCAGCA	22466
9302	UGGUGGGG A CACCCGCA	5346	TGCGGGTG GGCTAGCTACAACGA CCCAGCCA	22467
9323	GAGAGCUG A CUUGGAAA	5347	TTTCCAAG GGCTAGCTACAACGA CAGCTCTC	22468
9332	CUUGGAAA A UGAAGCUA	5348	TAGCTTCA GGCTAGCTACAACGA TTTCCAAG	22469
9359	GCUGCUUG A UGGGGAAC	5349	GTTCCCCA GGCTAGCTACAACGA CAAGCAGC	22470
9366	GAUGGGGA A CAUCGGCG	5350	CGCCGATG GGCTAGCTACAACGA TCCCCATC	22471
9427	UGAAAGUG A UGCGCCCG	5351	CGGGCGCA GGCTAGCTACAACGA CACTTTCA	22472
9443	GGCUGCUG A UGGAAGAA	5352	TTCTTCCA GGCTAGCTACAACGA CAGCAGCC	22473
9451	AUGGAAGA A CCGUCAUG	5353	CATGACGG GGCTAGCTACAACGA TCTTCCAT	22474
9461	CGUCAUGG A UGUUAUCU	5354	AGATAACA GGCTAGCTACAACGA CCATGACG	22475
9479	CAGAGAAG A UCAGAGGG	5355	CCCTCTGA GGCTAGCTACAACGA CTCTCTG	22476
9495	GGGAGUGG A CAAGUUGU	5356	ACAACCTG GGCTAGCTACAACGA CCACTCCC	22477
9518	CGCCCUAA A CACUUUCA	5357	TGAAAGTG GGCTAGCTACAACGA TTAGGGCG	22478
9530	UUUCACCA A CCUGGCCG	5358	CGGCCAGG GGCTAGCTACAACGA TGGTGAAA	22479
9553	UGGUGAGG A UGAUGGAA	5359	TTCCATCA GGCTAGCTACAACGA CCTCACCA	22480
9556	UGAGGAUG A UGGAAGGG	5360	CCCTTCCA GGCTAGCTACAACGA CATCCTCA	22481
9574	AAGGAGUG A UUGGCCCA	5361	TGGGCCAA GGCTAGCTACAACGA CACTCCTT	22482
9584	UGGCCCAG A UGAUGUGG	5362	CCACATCA GGCTAGCTACAACGA CTGGGCCA	22483
9587	CCCAGAUG A UGUGGAGA	5363	TCTCCACA GGCTAGCTACAACGA CATCTGGG	22484
9597	GUGGAGAA A CUCACAAA	5364	TTTGTGAG GGCTAGCTACAACGA TTCTCCAC	22485
9615	GGGAAAGG A CCCAAAGU	5365	ACTTTGGG GGCTAGCTACAACGA CCTTTCCC	22486
9628	AAGUCAGG A CCUGGCUG	5366	CAGCCAGG GGCTAGCTACAACGA CCTGACTT	22487
9644	GUUUGAGA A UGGGGAAG	5367	CTTCCCCA GGCTAGCTACAACGA TCTCAAAC	22488
9657	GAAGAAAAG A CUCAGCCG	5368	CGGCTGAG GGCTAGCTACAACGA CTTTCTTC	22489
9683	CAGUGGAG A UGACUGUG	5369	CACAGTCA GGCTAGCTACAACGA CTCCTACTG	22490
9686	UGGAGAUG A CUGUGUGG	5370	CCACACAG GGCTAGCTACAACGA CATCTCCA	22491
9707	GCCCCUGG A CGAUCGCU	5371	AGCGATCG GGCTAGCTACAACGA CCAGGGGC	22492
9710	CCUGGACG A UCGCUUUG	5372	CAAAGCGA GGCTAGCTACAACGA CGTCCAGG	22493
9740	CUUCCUCA A UGCUAUGU	5373	ACATAGCA GGCTAGCTACAACGA TGAGGAAG	22494
9764	UCGCAAAG A CAUCCAAG	5374	CTTGGATG GGCTAGCTACAACGA CTTTGGGA	22495
9780	GAGUGGAA A CCGUCAAC	5375	GTTGAOCG GGCTAGCTACAACGA TTCCACTC	22496
9787	AACCGUCA A CUGGAUGG	5376	CCATCCAG GGCTAGCTACAACGA TGACGGTT	22497
9792	UCAACUGG A UGGUAUGA	5377	TCATACCA GGCTAGCTACAACGA CCACTTGA	22498
9800	AUGGUUUG A UUGGCAGC	5378	GCTGCCAA GGCTAGCTACAACGA CATACCAT	22499
9827	UUGCUCAA A CCAUUUCA	5379	TGAAATGG GGCTAGCTACAACGA TTGAGCAA	22500

9840	UUCACUGA A UGAUCAU	5380	ATGATCAA GGCTAGCTACAACGA TCAGTGAA	22501
9844	CUGAAUUG A UCAUGAAA	5381	TTTCATGA GGCTAGCTACAACGA CAATTCAG	22502
9854	CAUGAAAG A UGGAAGAA	5382	TTCTTCCA GGCTAGCTACAACGA CTTTCATG	22503
9862	AUGGAAGA A CACUGGUG	5383	CACCAGTG GGCTAGCTACAACGA TCTTCCAT	22504
9885	UGCCGAGG A CAGGAUGA	5384	TCATCCTG GGCTAGCTACAACGA CCTCGGCA	22505
9890	AGGACAGG A UGAAUUGG	5385	CCAATTCA GGCTAGCTACAACGA CCTGTCTT	22506
9894	CAGGAUGA A UUGGUAGG	5386	CCTACCAA GGCTAGCTACAACGA TCATCCTG	22507
9930	GGGGCCGG A UGGAACGU	5387	ACGTTCGA GGCTAGCTACAACGA CGGGCCCC	22508
9935	CGGAUGGA A CGUCCGCG	5388	CGCGGACG GGCTAGCTACAACGA TCCATCCG	22509
9944	CGUCCGCG A CACUGCUU	5389	AAGCAGTG GGCTAGCTACAACGA CGCGGACG	22510
9976	AUGCCAG A UGUGGUG	5390	CAGCCACA GGCTAGCTACAACGA CTGGGCAT	22511
10007	CAGAAGAG A CCUGCGGC	5391	GCCGCAGG GGCTAGCTACAACGA CTCTTCTG	22512
10025	CAUGGCCA A CGCCAUUU	5392	AAATGGCG GGCTAGCTACAACGA TGGCCATG	22513
10052	CCCUGUGA A UUGGUUCC	5393	GGACCCAA GGCTAGCTACAACGA TCACAGGG	22514
10072	CCGGAAGA A CCACGUGG	5394	CCAGTGGG GGCTAGCTACAACGA TCTTCCGG	22515
10105	GAGAGUGG A UGACAACA	5395	TGTTGTCA GGCTAGCTACAACGA CCACTCTC	22516
10108	AGUGGAUG A CAACAGAG	5396	CTCTGTTG GGCTAGCTACAACGA CATCCACT	22517
10111	GGAUGACA A CAGAGGAC	5397	GTCCTCTG GGCTAGCTACAACGA TGTCTATC	22518
10118	AACAGAGG A CAUGUUGG	5398	CCAACATG GGCTAGCTACAACGA CCTCTGTT	22519
10136	GGUCUGGA A CCGUGUUU	5399	AAACACGG GGCTAGCTACAACGA TCAGAGCC	22520
10147	GUGUUUGG A UAGAGGAG	5400	CTCCTCTA GGCTAGCTACAACGA CCAAACAC	22521
10157	AGAGGAGA A UGAAUGGA	5401	TCCATTCA GGCTAGCTACAACGA TCTCTCTC	22522
10161	GAGAAUGA A UGGAUGGA	5402	TCCATCCA GGCTAGCTACAACGA TCATTCTC	22523
10165	AUGAAUGG A UGGAAGAC	5403	GTCTTCCA GGCTAGCTACAACGA CATTTCAT	22524
10172	GAUGGAAG A CAAAACCC	5404	GGGTTTTG GGCTAGCTACAACGA CTTCCATC	22525
10177	AAGACAAA A CCCCAGUG	5405	CACTGGGG GGCTAGCTACAACGA TTTGTCTT	22526
10191	GUGGAGAA A UGGAGUGA	5406	TCACTCCA GGCTAGCTACAACGA TTCTCCAC	22527
10199	AUGGAGUG A CGUCCCAU	5407	ATGGGACG GGCTAGCTACAACGA CACTCCAT	22528
10218	UCAGGAAA A CGAGAGGA	5408	TCCTCTCG GGCTAGCTACAACGA TTTCTCTA	22529
10226	ACGAGAGG A CAUCUGGU	5409	ACCAGATG GGCTAGCTACAACGA CCTCTCGT	22530
10246	GCAGCCUG A UUGGCACA	5410	TGTGCCAA GGCTAGCTACAACGA CAGGCTGC	22531
10280	GGCAGAAA A CAUCCAGG	5411	CCTGGATG GGCTAGCTACAACGA TTTCTGCC	22532
10298	GGCUAUCA A CCAAGUCA	5412	TGACTTGG GGCTAGCTACAACGA TGATAGCC	22533
10312	UCAGAGCA A UCAUCGGA	5413	TCCGATGA GGCTAGCTACAACGA TGCTCTGA	22534
10322	CAUCGGAG A UGAGAAGU	5414	ACTTCTCA GGCTAGCTACAACGA CTCCGATG	22535
10337	GUAUGUGG A UUAUGA	5415	TCATGTAA GGCTAGCTACAACGA CCACATAC	22536
10359	CUAAAGAG A UAUGAAGA	5416	TCTTCATA GGCTAGCTACAACGA CTCTTTAG	22537
10367	AUAUGAAG A CACAACUU	5417	AAGTTGTG GGCTAGCTACAACGA CTTCATAT	22538
10372	AAGACACA A CUUUGGUU	5418	AACCAAAG GGCTAGCTACAACGA TGTGTCTT	22539
10385	GGUUGAGG A CACAGUAC	5419	GTACTGTG GGCTAGCTACAACGA CCTCAACC	22540
10399	UACUGUAG A UAUUUAU	5420	ATTAAATA GGCTAGCTACAACGA CTACAGTA	22541
10406	GAUAUUUA A UCAAUUGU	5421	ACAATTGA GGCTAGCTACAACGA TAAATATC	22542
10410	UUUAUACA A UUGUAAU	5422	ATTTACAA GGCTAGCTACAACGA TGATTAAA	22543
10417	AAUUGUAA A UAGACAAU	5423	ATTGTCTA GGCTAGCTACAACGA TTACAATT	22544
10421	GUAAAUAG A CAAUAUAA	5424	TTATATTG GGCTAGCTACAACGA CTATTTAC	22545
10424	AAUAGACA A UAUAGUA	5425	TACTTATA GGCTAGCTACAACGA TGTCTATT	22546
10480	UAGUGUAA A UAGUUAAG	5426	CTTAACATA GGCTAGCTACAACGA TTACATA	22547
10492	UUAAGAAA A UUUUGAGG	5427	CCTCAAAA GGCTAGCTACAACGA TTTCTTAA	22548
10544	UUGAGUAG A CGGUGCUG	5428	CAGCACCG GGCTAGCTACAACGA CTACTCAA	22549
10559	UGCCUGCG A CUCAACCC	5429	GGGTTGAG GGCTAGCTACAACGA CGCAGGCA	22550
10564	GCGACUCA A CCCCAGGA	5430	TCCTGGGG GGCTAGCTACAACGA TGAGTCGC	22551
10575	CCAGGAGG A CUGGGUGA	5431	TCACCCAG GGCTAGCTACAACGA CCTCTGGG	22552
10584	CUGGGUGA A CAAAGCCG	5432	CGGCTTTG GGCTAGCTACAACGA TCACCCAG	22553
10600	GCGAAGUG A UCCAUGUA	5433	TACATGGA GGCTAGCTACAACGA CACTTCGC	22554
10619	CCCUCAGA A CCGUCUCG	5434	CGAGACGG GGCTAGCTACAACGA TCTGAGGG	22555
10636	GAAGGAGG A CCCCACAU	5435	ATGTGGGG GGCTAGCTACAACGA CCTCTTTC	22556
10651	AUGUUGUA A CUUCAAG	5436	CTTTGAAG GGCTAGCTACAACGA TACAACAT	22557
10664	AAAGCCCA A UGUCAGAC	5437	GTCTGACA GGCTAGCTACAACGA TGGGCTTT	22558
10671	AAUGUCAG A CCACGCUA	5438	TAGCGTGG GGCTAGCTACAACGA CTGACATT	22559
10713	AGUCUGCG A UAGUGCCC	5439	GGGCACTA GGCTAGCTACAACGA CGCAGACT	22560
10729	CCAGGAGG A CUGGGUUA	5440	TAACCCAG GGCTAGCTACAACGA CCTCTTGG	22561
10738	CUGGGUUA A CAAAGGCA	5441	TGCCTTTG GGCTAGCTACAACGA TAACCCAG	22562

10748	AAAGGCAA A CCAACGCC	5442	GGCGTTGG GGCTAGCTACAACGA TTGCCTTT	22563
10752	GCAAACCA A CGCCCCAC	5443	GTGGGGCG GGCTAGCTACAACGA TGGTTTGC	22564
10779	CCCCGGUA A UGGUGUUA	5444	TAACACCA GGCTAGCTACAACGA TACCGGGG	22565
10788	UGGUGUUA A CCAGGGCG	5445	CGCCCTGG GGCTAGCTACAACGA TAACACCA	22566
10802	GCGAAAGG A CUAGAGGU	5446	ACCTCTAG GGCTAGCTACAACGA CCTTTCGC	22567
10819	UAGAGGAG A CCCC GCGG	5447	CCCGGGGG GGCTAGCTACAACGA CTCCTCTA	22568
10851	CCAGCCUG A CUGAAGCU	5448	AGCTTCAG GGCTAGCTACAACGA CAGGCTGG	22569
10876	GGGGAAGG A CUAGAGGU	5449	ACCTCTAG GGCTAGCTACAACGA CCTTCCCC	22570
10893	UAGUGGAG A CCCC GUGC	5450	GCACGGGG GGCTAGCTACAACGA CTCCTACTA	22571
10908	GCCACAAA A CACCACAA	5451	TTGTGGTG GGCTAGCTACAACGA TTTGTGGC	22572
10916	ACACCACA A CAAAACAG	5452	CTGTTTGG GGCTAGCTACAACGA TGTGGTGT	22573
10921	ACAACAAA A CAGCAUUA	5453	ATATGCTG GGCTAGCTACAACGA TTTGTGTG	22574
10932	GCAUAUUG A CACCGGGG	5454	CCCAGGTG GGCTAGCTACAACGA CAATATGC	22575
10941	CACCGGGG A UAGACUAG	5455	CTAGTCTA GGCTAGCTACAACGA CCCAGGTG	22576
10945	UGGGAUAG A CUAGGAGA	5456	TCTCCTAG GGCTAGCTACAACGA CTATCCCA	22577
10953	ACUAGGAG A UCUUCUGC	5457	GCAGAAGA GGCTAGCTACAACGA CTCCTAGT	22578
10970	UCUGCACA A CCAGCCAC	5458	GTGGCTGG GGCTAGCTACAACGA TGTGCAGA	22579
10995	GUGCGCCG A CAAUGGUG	5459	CACCATTG GGCTAGCTACAACGA CGGCGCAC	22580
10998	CGCCGACA A UGGUGGCU	5460	AGCCACCA GGCTAGCTACAACGA TGTGGGCG	22581
11019	GUGCGAGA A CACAGGAU	5461	ATCCTGTG GGCTAGCTACAACGA TCTCGCAC	22582

Input Sequence = AF196835. Cut Site = R/Y

Arm Length = 8. Core Sequence = GGCTAGCTACAACGA

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VII

Table VII: WNV Amberzyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
9	AGUAGUUC G CUUGUGUG	3462	CACACAGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GAACUACU	22583
13	GUUGGCCU G UGUGAGCU	3463	AGCUCACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGGCGAAC	22584
15	UCGCCUGU G UGAGCUGA	3464	UCAGCUCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACAGGCGA	22585
19	CUUGUGA G CUGACAAA	3465	UUUGUCAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UACACACAG	22586
32	CAACACUA G UAGUGUUU	3466	AAACACUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UACUUAAGU	22587
35	ACUUAGUA G UGUUUGUG	3467	CACAAACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUACUAA	22588
37	UUAGUAGU G UUGUGAG	3468	CUCACAAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAACACUA	22589
41	UAGUGUUU G UGCGAGCU	3469	AAUCCUCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUUUUAA	22590
66	UUACACA G UGCGAGCU	3470	AGUCGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGUGUU	22591
68	AACACAGU G CGAGCUGU	3471	ACAGCUCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCGCACUG	22592
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCUUGCA	22593
75	UGCGAGCU G UUCUUUAG	3473	CUAAGAAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UAAAGAAC	22594
83	GUUUCUUA G CACGAAGA	3474	UCUUCGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCGAGAU	22595
99	AUCUCGAU G UCRAAGAA	3475	UUCUUAGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCGAGAU	22596
117	CCGAGAGG G CCCGGCAA	3476	UUGCCGGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCUCCUGG	22597
122	AGGGCCGG G CAGAGCC	3477	GGCUCUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGGGCCCU	22598
128	GGGCAAGA G CCGGGCUG	3478	CAGCCCGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCUUGCCG	22599
133	AGAGCCGG G CUGUCAAU	3479	AUUGACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCCCGGC	22600
136	GCCGGGCU G UCAAUUAG	3480	CAUAUUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUUGAG	22601
144	GUCAAUU G CUAAAACG	3481	CGUUUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUUUUAGC	22602
152	GUAAAAC G CGGAUUC	3482	GCAUUCGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUUUUAGC	22603
159	CGCGGAU G CCCCAGCU	3483	ACGCGGGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUCCCGG	22604
164	AUUGCCCG G CGUGUUUG	3484	ACAAACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GGGGCAU	22605
166	UCCCCCGG G UGUUUCU	3485	GGACACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCGGGGCA	22606
168	CCCCGGCU G UGUUCCU	3486	AAGGACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCGGGG	22607
171	CGCGUGUU G UCCUUGAU	3487	AUCAAGGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AACACCGG	22608
193	UGAAGAGG G CUAUGUUG	3488	CAACAUAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCUCUUA	22609
198	AGGGCUAU G UUGAGCCU	3489	AGGCUCAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUAGCCCU	22610
203	UAUGUUGA G CCUGAUUG	3490	CGAUUCAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCAACAU	22611
215	GAUCGACG G CAAGGGGC	3491	GCUCUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGUCGUAUC	22612
222	GGCAAGGG G CCAUAUCG	3492	CGUADUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCCUUGCC	22613
235	UACGAUUU G UGUUGGU	3493	AGCAACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUCGUA	22614
237	CGAUUUUGU G UUGGCUU	3494	AGAGCCAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACAAUUCG	22615
241	UUGUUGUG G CUCUCUUG	3495	CAAGAGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAACACAA	22616
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAGAGAG	22617
252	CUCUUGGC G UUCUUCAG	3497	CUGAAGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCCAAGAG	22618

Table VII

261	UUCUUCAG G UUCACAGC	3498	GCUGUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAAGAA	22619
268	GGUUCACA G CAUUGCU	3499	AGCAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGAAC	22620
274	CACAAU G CUCCGACC	3500	GGUCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUGCUG	22621
286	CGACCGA G CAGUCUG	3501	CAGCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGGGUCG	22622
289	CCCGAGCA G UGUCUGU	3502	UCCGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCUCGG	22623
291	CGAGCAGU G CUGGAUCG	3503	CGAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCUG	22624
308	AUGGAGAG G UGUGAACA	3504	UGUUCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCAU	22625
310	GGAGAGGU G UGAACAAA	3505	UUUGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUC	22626
325	AACAAACA G CGAUGAAA	3506	UUUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUGU	22627
344	CUUCUGA G UUUUAAGA	3507	UCUUAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGAAAG	22628
374	CUUGACCA G UGUUAUCA	3508	UGAUAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUCAAG	22629
376	UGACCCAG G CUUAUCAU	3509	AUGAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGUCA	22630
387	AUCAAUCG G CGGAGCUC	3510	GAGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUUGAU	22631
392	UCCGCCGA G CUCAAAAC	3511	GUUUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGCCGA	22632
430	CCGGAUU G CAGUCAUG	3512	CAUGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCUG	22633
433	GAUUGCA G UCAUGAUU	3513	AAUCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAUUC	22634
443	CAUGAUUG G CCUGAUCG	3514	CGAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUAUG	22635
451	GCUGAUC G CCAGCGUA	3515	UACGUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCAGC	22636
455	GAUCGCA G CAGAGGAG	3516	UCCUACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGAUC	22637
457	UGCCACG G UAGGAGCA	3517	UGUCCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUGGCA	22638
463	GGUAGGA G CAGUUAAC	3518	GGUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUAGC	22639
466	UAGGAGCA G UUAACCU	3519	GAGGUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUCA	22640
493	AAGGGAAG G UGAUGAU	3520	CAUCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCUU	22641
505	UGAUGAG G UAAAUUGU	3521	AGCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUCAUA	22642
511	CGGUAAU G CUACUGAC	3522	GUCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUACCG	22643
520	CUACUGAC G UCACAGAU	3523	AUCUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCAGUAG	22644
529	UCACAGAU G UCAUCAG	3524	CGUGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUGUA	22645
547	UUCCAACA G CUGCUGGA	3525	UCCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGAA	22646
550	CAACAGU G CUGGAAG	3526	CUUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGTUGU	22647
566	GAACCUAU G CAUUGUA	3527	UGACAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AVAGGUUC	22648
571	UAUGCAU G UCAGAGCA	3528	UGUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGCAUA	22649
577	UUGUCAGA G CAUUGAU	3529	AUCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAGACA	22650
586	CAUGAUU G UGGGAUAC	3530	GUAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUU	22651
597	GAUACAU G UGCGAUA	3531	UAUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUUC	22652
599	AAACAAU G CGAUGAUA	3532	UAUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUUAU	22653
623	UAUGAAU G CCCAGUGC	3533	GCACUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUAU	22654
628	AAUGCCA G UGUGUUG	3534	CGACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCAU	22655
630	UGCCAGU G CUGUCGGC	3535	CGGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGCA	22656
633	CCAGUGU G UCGGUGG	3536	CCAGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGUG	22657
637	UGCUGUG G CUGUAUU	3537	AUUAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACAGCA	22658

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641	GUCGCGUG G UAUUGAUC	3538	GAUCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCGAC	22659
665	CAUCGACU G UUGUGCA	3539	UGCACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCGAUG	22660
669	GACUGUUG G UGCACAAA	3540	UUUGUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAGUC	22661
671	CUGUUUGU G CACAAAGU	3541	ACUUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAACAG	22662
678	UGACAAA G UCAGCAGU	3542	ACUGUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGGCA	22663
682	CAAGUCA G CAGUCUAC	3543	GUAGACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUUUG	22664
685	AGUCAGCA G UCACGUC	3544	GACGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUACU	22665
691	CAGUCUAC G UCAGGUAU	3545	AUACCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGACUG	22666
696	UACGUCAG G UAUUGAAG	3546	CUUCCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACGUA	22667
707	UGGAAGAU G CACCAAGA	3547	UCUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUUCCA	22668
719	CAAGACAC G CCACUCNA	3548	UUGAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUCUUG	22669
731	CUCAAGAC G CAGUCGGA	3549	UCCGACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUUGAG	22670
734	AGACGCA G UCGGAGU	3550	ACCUCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUCUU	22671
741	AGUCGAG G UCACUGAC	3551	GUCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGACU	22672
751	CACUGACA G UGCAGACA	3552	UGUCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCAGUG	22673
753	CUGACAGU G CAGACACA	3553	UGUGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUCAG	22674
770	CGGAGAA G CACUCUAG	3554	CUAGAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCUCCG	22675
778	GCACUCUA G CGAACAA	3555	CUUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGAGUGC	22676
793	AGAAGGG G CUUGGAUG	3556	CAUCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCTUCU	22677
806	GAGGACA G CACCAAGG	3557	CCUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCCAUC	22678
814	GCACCAAG G CCACAAGG	3558	CCUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGUGC	22679
822	GCACCAAG G UAUUUGU	3559	ACCAUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGUGGC	22680
829	GUUAUUG G UAAAAACA	3560	UGUUUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUUAAC	22681
868	CUGGAUAU G CCGUGUG	3561	CACACGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUCCAG	22682
874	AUGCCUG G UGCAGGC	3562	GGCUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGGCAU	22683
877	CCUGUG G CAGCCGUC	3563	GACGGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGAGG	22684
880	UGGUGGCA G CCGUCAU	3564	AUAGACGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCACCA	22685
883	UGGCAGCC G UCAUUGU	3565	ACCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGCCA	22686
890	CGUCATUG G UUGGAUGC	3566	GCAUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAGACG	22687
897	GGUUGGAU G CUUGGGAG	3567	CUCCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAACC	22688
905	GUUGGGA G CAACACCA	3568	UGGUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAGC	22689
915	ACACCAU G CAGAGAGU	3569	ACUCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGUGUU	22690
922	UGCAGAGA G UUGUGUU	3570	AAACACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUGCA	22691
925	AGAGAGUU G UGUUGUC	3571	GACAAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUCUCU	22692
927	AGAGUUGU G UUGUGCU	3572	ACGACAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACUCU	22693
931	UUGUGUUU G UCGUGCUA	3573	UAGCAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACACAA	22694
934	UGUUGUC G UGCUAUUG	3574	CAAUAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACAAACA	22695
936	UUUGUCGU G CUAUUGCU	3575	AGCAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGACAAA	22696
942	GUGCUAUU G CUUUUGGU	3576	ACCAAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAGCAC	22697
949	UGCUUUG G UGCCCCA	3577	UGGGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAAGCA	22698

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952	UUUUGUG G CCCAGCU	3578	AGCUGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACCAAA	22699
958	UGGCCCA G CUUACAGC	3579	GCUGUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGGSCA	22700
965	AGCUACA G CUUCAACU	3580	AGUUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUUAGCU	22701
974	CUUCAACU G CCUUGGAA	3581	UUCCAAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUUGAAG	22702
986	UGGAUGA G CAACAGAG	3582	CUCUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAUUGCA	22703
1009	UGGAAGGA G UGUCUGGA	3583	UCCAGACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUUGCA	22704
1011	GAAGAGU G UCUGGAGC	3584	GUCCAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCUUC	22705
1018	UGUCUGGA G CAACAUGG	3585	CCAUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAAGACA	22706
1027	CAACAUGG G UGGAUUUG	3586	CAAAUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAUGUUG	22707
1036	UGGAUUUG G UUCUGGAA	3587	UUCGAGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAAUCCA	22708
1046	UCUCGAG G CGACAGCU	3588	AGCUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUCGAGA	22709
1052	AGGACACA G CUGCGUGA	3589	UCACGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUCGCCU	22710
1055	CGACAGCU G CGUGACUA	3590	UAGUCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUGUCG	22711
1057	ACAGCUG G UGACUAUC	3591	GAUAGUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGCUGU	22712
1068	ACUAUCAU G UCURAGGA	3592	UCCUUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGAUAGU	22713
1080	AAGGACNA G CCUACCAU	3593	AUGGUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGUCCUU	22714
1093	CCAUCGAU G UGAAGAUG	3594	CAUCUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCGAGUG	22715
1114	AUAUGGAG G CGGUCAAC	3595	GUUGACCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCAUAU	22716
1117	UGGAGGCG G UCAACCUUG	3596	CAGGUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGCUCUCA	22717
1126	UCAACCUG G CAGAGGUC	3597	GACCUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUGA	22718
1132	UGGACAG G UCCGCAGU	3598	ACUGCGGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUGCCA	22719
1136	AGAGUCC G CAGUUAUU	3599	AAUACUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGAACUCU	22720
1139	GUUCGCA G UUAUUGCU	3600	AGCAUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGCAGACC	22721
1145	CAGUUAUU G CUAUUGG	3601	CCAAUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUACUG	22722
1153	GUUAUUG G CUACCGUC	3602	GACGGUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAUAVAG	22723
1159	UGGCUACC G UCAGCGAU	3603	AUCGUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGUAGCCA	22724
1163	UACCGUCA G CGAUCUCU	3604	AGAGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGACGGUA	22725
1180	CCACCAA G CUGCGUGC	3605	GCACGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGGUGUG	22726
1183	CCAAAGCU G CGUGCCCG	3606	CGGCGACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUTUUG	22727
1185	AAAGCUG G UGCCCGAC	3607	GUCCGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGCUUU	22728
1187	AGCUGCGU G CCGGACCA	3608	UGGUCGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACGAGCUU	22729
1204	UGGAGAGAA G CUCACAAU	3609	AUUGUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCUCCCA	22730
1220	UGACAAAC G UGUGAGCC	3610	GGUCAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUUUGUCA	22731
1222	ACAAACGU G CUGACCCA	3611	UGGGUCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACGUUGU	22732
1231	CUGACCCA G CUUUGUG	3612	CACAAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGGUCAG	22733
1237	UGGUUUU G UGUGCAGA	3613	UCUGCACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAAGCUG	22734
1239	GUUUUUU G UGCAGACA	3614	UGUCUGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAAAAGC	22735
1241	UUUUUGU G CAGACAAG	3615	CUUGUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACACAAA	22736
1252	GACNAGGA G UGGUGGAC	3616	GUCCACCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUUGUC	22737
1255	AAGGAGUG G UGGACAGG	3617	CCUGUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACUCCUU	22738

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1265	GGACAGG G CUGGGCA	3618	UGCCCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGUUGCC	22739
1271	GGGUGGG G CAACGGCU	3619	AGCCGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAGCCC	22740
1277	GGGCAAC G CUGGGAU	3620	AUCCGCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUUGCCC	22741
1280	CAACGGC G CGGAUUAU	3621	AUAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGUUG	22742
1292	AAUUAUUG G CAAGGAA	3622	UUUUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUAUAU	22743
1301	CAAGGAA G CAUUGACA	3623	UGUCAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCUUUG	22744
1313	UGACACAU G CGCCAAAU	3624	AUUUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUGUCA	22745
1315	ACACUUC G CCAAAUUA	3625	AAAUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAUGUGU	22746
1324	CCAAAUU G CCUGUCU	3626	AGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUAUUG	22747
1328	AUUUGCCU G CUCUACCA	3627	UGGUAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCAAAU	22748
1339	CUACCAAG G CAAUAGGA	3628	UCCUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGUAG	22749
1374	AAUAUCAA G UACGAAGU	3629	ACTUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUUAU	22750
1381	AGUAGGAA G UAGCCAUU	3630	AUUGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUACU	22751
1384	ACGAAGUG G CCAUUAUU	3631	AAAAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUUCGU	22752
1393	CCAUUUU G UCCAUGGA	3632	UCCAUGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAAUGG	22753
1411	CAACUACU G UGGAGUCG	3633	CGACUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAGUUG	22754
1416	ACUGUGGA G UCGACCGG	3634	CCGUGCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACAGU	22755
1419	GUGGAGUC G CACGGAAA	3635	UUUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACUCCAC	22756
1441	CCACAGC G UCGAGGCC	3636	GGCUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGUGG	22757
1447	AGGUUGA G CCACUCAG	3637	CUGAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAACU	22758
1456	CCACUCAG G CAGGAGGA	3638	UUCUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAGUGG	22759
1469	GAGAUUCA G CAUCACUC	3639	GAGUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUUCUC	22760
1480	UCACUCCU G CGGCGCCU	3640	AGCGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGUGA	22761
1483	CUCCUGG G CGCCUUA	3641	UGAAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCAGGAG	22762
1485	CCUGCGG G CCUUCAU	3642	UAUGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCAGG	22763
1503	ACACUAA G CUUGGAGA	3643	UCUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UTUAGUGU	22764
1522	AUGGAGAG G UGACAGUG	3644	CACUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCCAU	22765
1528	AGGUGACA G UGACUUGU	3645	ACAGUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUACCUU	22766
1535	AGUGGACU G UGAACCCAC	3646	GUGGUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCACU	22767
1545	GAACCCAG G UCAGGGAU	3647	AUCCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGGUUC	22768
1564	ACACCAU G CAUACUAC	3648	GUAGUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGGUGU	22769
1573	CAUACUAC G UGAUGACU	3649	AGUCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGUAUG	22770
1582	UGAUGACU G UUGGAACA	3650	UGUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCAUA	22771
1596	ACAAAGAC G UUCUUGGU	3651	ACCAAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUUUGU	22772
1603	CGUUCUG G UCAUUCGU	3652	ACGAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGAAG	22773
1610	GUUCCAU G UGAGUGGU	3653	ACCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGGACC	22774
1614	CAUGGUA G UGUUUAU	3654	AUGAACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACGAUG	22775
1617	CGUGAGUG G UUCAUGGA	3655	UCCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUACG	22776
1643	CCUUGGA G CAGUGCUG	3656	CAGACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGGGG	22777
1646	UUGGAGCA G UUCUGGAA	3657	UUCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUCUNA	22778

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1648	GGAGCAGU G CUGGAAGU	3658	ACUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCUCC	22779
1655	UGCUGGAA G UACUGUGU	3659	ACACAGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGCA	22780
1660	GAGUACU G UUGGAGG	3660	CCUCCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUACUUC	22781
1662	AGUACUGU G UGGAGGAA	3661	UCCUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUACU	22782
1680	AGAGAC G UUAUGGA	3662	UCCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCUCU	22783
1689	UUAUGGA G UUGAGGA	3663	UCCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUUAA	22784
1705	AACACAC G CCACGAAG	3664	CUUCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUGGU	22785
1713	GCCACGAA G CAGUCUGU	3665	ACAGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUGGC	22786
1716	ACGAAGCA G UCUUGAU	3666	AUCACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUCGU	22787
1720	AGCAGUCU G UGAUAGCA	3667	UGCUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACUGCU	22788
1726	CUGUGAUA G CAUUGGGC	3668	GCCCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCACAG	22789
1733	AGCAUUG G CUCACAAG	3669	CUUGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUGCU	22790
1747	AAGAGGA G CUCUGCAU	3670	AUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCU	22791
1752	GGAGCUCU G CAUCAAGC	3671	GUUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCUCC	22792
1759	UGCAUCA G CUUUGGCU	3672	AGCCAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUGCA	22793
1765	AAGCUUG G CUGGAGCC	3673	GGCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCUU	22794
1771	UGGUCUGA G CCAUUCU	3674	AGGAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGCCA	22795
1780	CAUUCU G UGGAUUU	3675	AAAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUUG	22796
1793	AUUUCA G CAACACU	3676	CAGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAA	22797
1801	GCAACU G UCAAGUUG	3677	CAACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUAUGC	22798
1806	ACUGUCA G UUGACGUC	3678	GACGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACACU	22799
1812	AAGUAGC G UCGGGUCA	3679	UGACCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCACU	22800
1817	GACGUCG G UCAUUUA	3680	UCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGACGUC	22801
1827	CAUUGAA G UGUAGAU	3681	ACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUUG	22802
1829	UUUGAAG G UAGAGUGA	3682	UCACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCAAA	22803
1834	AGUGA G UAGAUAU	3683	CAUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUACACU	22804
1851	GAUUAU G CAGUUGA	3684	UUAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUUUUC	22805
1854	AAUUGCA G UUGAAGG	3685	CCUUCNA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAUUU	22806
1874	AACCUAG G CGUCUGU	3686	AACAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAGGUU	22807
1876	CUAUGGC G UCUGUUA	3687	UGAACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAUAGG	22808
1880	UGGCGUCU G UUCAAGG	3688	CCUUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACGCCA	22809
1888	GUUCAAG G CUUCAAAG	3689	CUUGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGAAC	22810
1896	GUUCUAA G UUUCUUGG	3690	CCAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAGC	22811
1912	GGACUCC G CAGACACA	3691	UGGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAAGUCC	22812
1922	AGACACAG G UGUGUUG	3692	UGCUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUGUCU	22813
1928	AGGUACG G CACUGUG	3693	CCACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGACCU	22814
1933	ACGGCACU G UGGUGUUG	3694	CAACACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGCCGU	22815
1936	GCACUGU G UGUUGGAA	3695	UUCACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAGUC	22816
1938	ACUGUGU G UUGGAUU	3696	AAUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACAGU	22817
1947	UUGGAUU G CAGUACAC	3697	GUGUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCAA	22818

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1950	GAUUGCA G UACACUGG	3698	CCAGUGA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGCAUUC	22819
1958	GUACACU G CACGGAUG	3699	CAUCCUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CAGUUAU	22820
1973	UGGACCUU G CAAAGUUC	3700	GAACUUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	AAGGUCCA	22821
1978	CUUGCAA G UUCUAUC	3701	GAUAGAA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UUUGCAAG	22822
1989	CUUAUCU G UCAUGGG	3702	GCCACUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	GAGUUAAG	22823
1993	UCUGGUG G UGGCUUCA	3703	UGAAGCA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGACGAGA	22824
1996	CGUUGUG G CUUCAUUG	3704	CAAUAGG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CACUGACG	22825
2016	GACCUAC G CCAUGGG	3705	CCCACUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	GUUAGGUC	22826
2020	UACGCCA G UGGGCAGA	3706	UCUGCCA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGCGUUA	22827
2024	GCAGUGG G CAGAUUGG	3707	CCAUCUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CCACUGGC	22828
2032	GCAGUUG G UCACUGUC	3708	GACAGUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CAUUCUG	22829
2038	UGGUCACU G UCAACCCU	3709	AGGUUGA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	AGUACCA	22830
2050	ACCCUUU G UUCAGUG	3710	CACUAAA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	AAAAGGU	22831
2056	UUUUUCA G UGCCACG	3711	CGUGCCA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGAAACMA	22832
2059	UUUCAGU G CCACGGCC	3712	GGCCUGG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CACUAAA	22833
2065	UGGCCAG G CCAACGU	3713	AGGUUGG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CGUGGCCA	22834
2071	CGGCCAAC G CUAAGGUC	3714	GACCUAG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	GUUGGCCG	22835
2077	ACGUUAG G UCCUGAUU	3715	AUACGGA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CUUAGCGU	22836
2119	CAUACAUA G UGGUGGC	3716	GCCACCA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UAUUAUG	22837
2122	ACUUAUG G UGGGCAGA	3717	UCUGCCA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CACUUAU	22838
2126	AGUGGUG G CAGAGGAG	3718	CUCCUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CCACCACU	22839
2157	CACCAUG G CACAAGUC	3719	GACUUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CAUUGGUG	22840
2163	UGGCACAA G UCUGGAAG	3720	CUUCAGA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UAUUGCCA	22841
2171	GUUGGAA G CAGCAUUG	3721	CAUUCUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UUCAGAC	22842
2174	UGGAAGCA G CAUUGGCA	3722	UGCCAU GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGCUUCCA	22843
2180	CAGCAUG G CAAAGCCU	3723	AGGUUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CAUUGCUG	22844
2185	UUGGCATA G CCUUAACA	3724	UGUAAAG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UUUGCCAA	22845
2209	UCAAAGGA G CAGAGAGA	3725	UCUCUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UCCUUGA	22846
2211	AAAGGAG G CAGAGACU	3726	AGUCUG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	GCUCUUU	22847
2221	AGAGACUA G CCGCUUA	3727	UAGAGCG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UAGUCUCU	22848
2224	GACUAGC G CUCUAGA	3728	UCCUAG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	GCUUAGUC	22849
2239	GAGACACA G CUUGGAC	3729	GUCCUAG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGUGUCUC	22850
2257	UUGGAUCA G UUGGAGG	3730	CCUCCAA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGAUCCAA	22851
2266	UUGGAGG G UGUUACCC	3731	GGUAAAC GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CCUCCCAA	22852
2268	GAGGAGG G UUCACUUC	3732	GAGUGAA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	ACCCUCC	22853
2278	UACCCUA G UUGGGAAG	3733	CUUCCAA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UGAGGUGA	22854
2287	UUGGGAAG G UUGUCCAU	3734	AUGACAG GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	CUUCCCAA	22855
2290	GGAAGGU G UCCAUCA	3735	UUGAUGA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	AGCUUCC	22856
2299	UCCAUCA G UGUUGGGA	3736	UCCGAAC GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	UUGAUGA	22857
2301	CAUCAUG G UUCGGAGG	3737	CCUCCGA GGA GCGUUAAGG	UCCUUAAGGA	GCGUUAAGG	UCCGG	ACUUGAUG	22858

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2311	UCGAGGA G CAUCCGC	3738	GCGGAUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCCUCCGA	22859
2318	AGCAUCC G CUCACUGU	3739	ACGUGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GGAUUGCU	22860
2325	CGCUCACU G UUCGAGG	3740	CCUCCGAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGUGAGCG	22861
2333	GUUCGAG G CAUGUCCU	3741	AGGACAU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CUCGAC	22862
2337	GGAGCAU G UCCUGAU	3742	AUCGAGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUGCUCC	22863
2349	UGGAUAC G CAGGAUU	3743	AAUCCUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUUAUCCA	22864
2358	CAAGAUU G CUGGGGC	3744	GCCCGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AAUCCUUG	22865
2365	UGCUGGG G CUCUCCG	3745	CAGGAGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CCCAGCA	22866
2373	GCUCUCCU G UUGUGAU	3746	AUCCACA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGGAGAGC	22867
2376	CUCUCCU G UGGAUGG	3747	CCCAUCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AACAGAG	22868
2384	GUGGAUG G CAUCAUG	3748	CAUUGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CAUCCAC	22869
2392	GCAUCAU G CUCUGAU	3749	AUCACGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUTGAUGC	22870
2396	CAUCCUC G UGAUAGG	3750	ACUAUCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GAGCAUUG	22871
2403	CGUGAUG G UCAUAGC	3751	ACUAUGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CUUACACG	22872
2410	GUUCAUA G CUCUCACG	3752	CGUGAGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UAUAGACC	22873
2418	GCUCUCC G UUCUCGC	3753	GGGAGAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUGAGAGC	22874
2425	CGUUCUC G CAGUUGA	3754	UCCAACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GAGAAACG	22875
2428	UUCUGCA G UUGAGGA	3755	UCCUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UGCGAGAA	22876
2437	UUGAGGA G UUCUGUC	3756	GAGCAGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCCUCAA	22877
2442	GGAGUUC G CUCUCCU	3757	AGGAGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GAGAGGA	22878
2455	UCCUCCU G UGAACUG	3758	CAGUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUUACAGG	22879
2461	CCGUGAC G UGACGCU	3759	AGGUGCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUUACAGG	22880
2463	GUGAACU G CACGCUA	3760	UCAGCGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG ACGUCCAC	22881
2467	ACGUGAC G CUGACACU	3761	AGUUCAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUGCACGU	22882
2478	GACACUG G UGUGCCAU	3762	AUGGCAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CCAGUGUC	22883
2480	CACUGGU G UGCAUAG	3763	CUAUGCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG ACCAGUG	22884
2482	CUGGUGU G CCAUAGAC	3764	GUCAUGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG ACACCCAG	22885
2495	AGACAUA G CCGCAAG	3765	CUUGCCG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UGAUGUCU	22886
2499	AUCAGCG G CAGAGCU	3766	AGCUUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CGGCUGAU	22887
2505	CGCAAGA G CUGAGAU	3767	CAUCUCAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCUUGCCG	22888
2513	GCUGAGU G UGGAAGUG	3768	CACUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUCUACG	22889
2519	AUGUGAA G UGAGUGU	3769	ACAUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCCACAU	22890
2524	GRAGUGA G UGUCAUA	3770	UAUGACA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCCACUUC	22891
2526	AGUGGAGU G UUCAUACA	3771	UGUAUGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG ACUCCACU	22892
2542	ACAUUGA G UGAGGCU	3772	AGCCUCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUCAUUGU	22893
2548	AUGUGAG G CUGGAGU	3773	CAUCCAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CUCACAU	22894
2562	AUGACCG G UACAAGUA	3774	UACUUGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CGGUCCAU	22895
2568	CGGUACAA G UAUUACCC	3775	GGGUADA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UUGUACCG	22896
2583	CCUGAAC G CCACAGG	3776	CCUUGUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUUUCAGG	22897
2591	GCACACAG G CCUAGCCA	3777	UGGCUAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CUUUGGC	22898

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2596	AAGGCTUA G CCAAGAUC	3778	GAUCUUGG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UAGGCCCCTU	22899
2614	UUCAGAAA G CUCAUAAG	3779	CUUAUAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UUUUCUBAA	22900
2629	AGGAAGGA G UGUGCGGU	3780	ACCGCACA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCCUUUCCU	22901
2631	GAAGGAGU G UGCGGUCU	3781	AGACCGCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG ACUCCUUC	22902
2633	AGAGAGU G CGGUCUAC	3782	GUAGACG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG ACACUCCU	22903
2636	AGUGUGCG G UCUACGAU	3783	UCUGAGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GGCACACU	22904
2647	UACGAUCA G UUUCCAGA	3784	UCUGGAAA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGAUUGUA	22905
2661	AGACUGGA G CAUCAAAU	3785	AUUUGAUG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCCAGUCU	22906
2670	CAUCAAAU G UGGGAAGC	3786	GCUCCCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUUUQAUG	22907
2677	UGUGGGA G CAGUGAAG	3787	CUUCACUG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UUUCCACA	22908
2680	GGGAAGCA G UGAAGGAC	3788	GUCCUCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGUUCCUC	22909
2691	AAGGACGA G CUGAACAC	3789	GUGUUCAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCGUCCUU	22910
2717	GGAGAUG G UGUAGACC	3790	GGUCCCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUCC	22911
2719	AGAAUGU G UGGACCTU	3791	AAGGUCCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG ACCAUUCU	22912
2729	GGACCTUA G UGUCGUGG	3792	CCACGACA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UAGGUCC	22913
2731	ACCUAUG G UCGUGGUU	3793	AACCGAGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCAUAGGU	22914
2734	UUGAUGUC G UGGUUGAG	3794	CUCAACCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GACACUAA	22915
2737	GUGUCUG G UUGAGAAA	3795	UUUCUCAA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAGGACAC	22916
2757	GAGGGAU G UACAAGUC	3796	GACUUGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUUUCUCC	22917
2763	ACUACAA G UCAGCAC	3797	GGUGUCGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UUGUACAU	22918
2767	AGAAGUA G CACUAAA	3798	UUUAUGG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGACUUGU	22919
2777	ACCUAAC G CCUCACG	3799	CGUGAGG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GUUUAGGU	22920
2785	GCUCACC G CCACCAG	3800	CGUGGUG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GUUGAGGC	22921
2810	GGAAUUG G CUGGAAG	3801	CCUCCAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAUUTUCC	22922
2818	CGUGGAAG G CCUGGGA	3802	UCCCCAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CUUCCAGC	22923
2831	GGGAAGA G UAUUUUAU	3803	AUAAAUUA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCUUCCUC	22924
2842	UUUAUUU G CACCAGAA	3804	UUCGUGG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AAUUAUAA	22925
2854	CAGAATUC G CCAACAC	3805	GUUUGG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GAGUUCUG	22926
2859	ACACCUU G UGUUGAU	3806	AUCACCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AAAGGUGU	22927
2872	CCUUUGU G UUGAUGGU	3807	ACCAUCAA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CACAAAGG	22928
2879	GGUUGAU G UCCGGAGA	3808	UCUCCGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAUCAACC	22929
2897	CAAGGAU G UCCGACUC	3809	GAGUGGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUUCCUUG	22930
2912	UCAGAAUC G CGCUGGA	3810	UCCAAAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GAUUCUGA	22931
2914	AGAUCCG G CUUGAAU	3811	AUUCGAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GCGAUUCU	22932
2924	UUGGAUA G UUGAAG	3812	CUUCUAG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UAUUCCAA	22933
2932	GUUAGAA G UGGAGAU	3813	AUUCUCCA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCUUAGGC	22934
2951	UGGAUUU G UCUCACCA	3814	UGUGAGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAAUCCA	22935
2960	UCUCACCA G CACUCGGA	3815	UCCAGUG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGGUGAGA	22936
2970	ACUGGAU G UUCUGAA	3816	UUCAGGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUCCGAGU	22937
2980	UCCUGAAG G UCAGAGAG	3817	CUUCUGA GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CUUACAGGA	22938

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22939	UUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUCUG	22939
22940	CUAGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCAGUU	22940
22941	CUAGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUCCAA	22941
22942	GUUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCUUC	22942
22943	GUUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGUUG	22943
22944	ACAGGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGAUC	22944
22945	CAUAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUACU	22945
22946	UGAGCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCRAUC	22946
22947	UCAUUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCUUUC	22947
22948	AGCUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACAUU	22948
22949	CUUCAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACGU	22949
22950	CAGAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCAA	22950
22951	ACCCAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUUTU	22951
22952	UGACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAACU	22952
22953	UGAUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACCCA	22953
22954	GCACGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUUUG	22954
22955	UCAGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACAUGA	22955
22956	GUUCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUACA	22956
22957	AAGUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCAGG	22957
22958	UCGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUUAUG	22958
22959	UUCCAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCACAAG	22959
22960	UCAAGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCAAGG	22960
22961	CAGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUAUUA	22961
22962	UGGUCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUUGA	22962
22963	UGUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUUGU	22963
22964	GUUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGUUCU	22964
22965	CCCAUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGUUU	22965
22966	CUACCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCGUCC	22966
22967	AAUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGGCCUU	22967
22968	UUCUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAUUG	22968
22969	CAGGGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUAGUUC	22969
22970	AGCUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGGUG	22970
22971	GUCCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCACUC	22971
22972	GGUGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUUCA	22972
22973	CAGGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUGCCG	22973
22974	GCAGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUCCAC	22974
22975	UGGUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUGGCA	22975
22976	ACUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUGUG	22976
22977	GUUAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCCGU	22977
22978	CUGACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUCUGU	22978

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3404	AGAUGGU G CUGCAGGA	3858	UCCUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAAUCU	22979
3407	UUGUGCU G CAGGAGCU	3859	AGCUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCACCAG	22980
3413	CUGCAGGA G CUGCACC	3860	AGUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGCAG	22981
3416	CAGGAGCU G CACCUAC	3861	GUAGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCCUG	22982
3432	CCACACU G CGCUACCA	3862	UGUAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGGUG	22983
3434	ACCUCG C CUACCAA	3863	UUUGGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGUGGU	22984
3449	AACUGCA G CGGUGUU	3864	AACAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCAGUU	22985
3452	UGACAGCG G CUGUGGU	3865	ACCAACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUGUCA	22986
3455	CAGCGGCU G UUGGUAUG	3866	CAUACCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCGCUG	22987
3459	GGCUGUG G UAUGUAU	3867	AUACCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAGCC	22988
3464	UUGGUAUG G UAUGGAGA	3868	UUCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACCAA	22989
3505	AGACCCUC G UGCAGUCA	3869	UGACUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGGUCU	22990
3507	ACCUCGU G CAGUCACA	3870	UGUGACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGAGGU	22991
3510	CUCUGCA G UCACAAGU	3871	ACUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCACGAG	22992
3517	AGUCACAA G UGAUGCU	3872	AGCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGACU	22993
3523	AAGUGAU G CUUAUAU	3873	AUAUAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCACUU	22994
3532	CUUAUAU G CUGAUAUG	3874	CAUAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUAUAAG	22995
3555	CCUUUCA G UUGGGCCU	3875	AGGCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAAGAAG	22996
3560	UCAGUUG G CCUCUGG	3876	CCAGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAACUGA	22997
3568	GCCUUCG G UCGUGUUC	3877	GAACACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAAGGC	22998
3571	UUCUGGUC G UGUUCUUG	3878	CAAGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACCAGAA	22999
3573	CUGGUCU G UUCUUGGC	3879	GCCAAGNA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGCCAG	23000
3580	UGUUCUUG G CCACCCAG	3880	CUGGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGACAA	23001
3592	CCCAGGAG G UCCUUCGC	3881	GCGAAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUGGG	23002
3599	GGUCCUUC G CAAGAGGU	3882	ACCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGGAGCC	23003
3606	CGCAGAG G UGACAGC	3883	GCUGUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGCG	23004
3613	GGUGGACA G CCAAGAUC	3884	GAUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCCACC	23005
3623	CAAGAUA G CAUGCCAG	3885	CUGGCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCUUG	23006
3627	AUCAGCAU G CCAGCUAU	3886	AUAGCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCUGAU	23007
3631	GCAUGCCA G CUUAUCUG	3887	CAGUAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCAUGC	23008
3643	UACUGAU G CUCUGCUA	3888	UAGCAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCAGUA	23009
3648	AUUGUCU G CUAGUCCU	3889	AGGACUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAAU	23010
3652	CUCUGCUA G UCCUGGUG	3890	CACCAAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCAGAG	23011
3658	UAGUCCUG G UGUUUGGG	3891	CCCAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGACUA	23012
3660	GUCUGGU G UUUUGGGG	3892	CCCCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAGGAC	23013
3668	GUUGGGG G CAUUAUCU	3893	AAGUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCAAC	23014
3685	ACACUGG G UGUUACGC	3894	GUGUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACAGUG	23015
3687	ACUGAUG G UACGCUA	3895	UAGCGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACAGU	23016
3692	UGUGUAC G CUUAUCUA	3896	UGACUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACACA	23017
3697	UAGGCUAU G UCAUCUUG	3897	CAAGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAGCUGA	23018

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3706	UCAUCUUG G UGGGGGCA	3898	UGCCCCCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGAUGA	23019
3712	UGUGGGG G CAGCUUUC	3899	GAAGCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCCACCA	23020
3715	UGGGGGCA G CUUUCGCA	3900	UGCGAAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCCCA	23021
3721	CAGCUUC G CAGAAUCU	3901	AGAUCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAAAGCUG	23022
3745	GAGGAGC G UGUACAC	3902	GUGUACCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCCUC	23023
3748	GAGACGUG G UACACUUG	3903	CAAGUGUA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUCUC	23024
3757	UACACUUG G CGCUAUG	3904	CAUGAGCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGUGUA	23025
3759	CACUUGC G CUCUAGGC	3905	GCACGAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAAGUG	23026
3766	CGCUAUG G CGACCUUC	3906	GAAGUCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGAGCG	23027
3787	UACAACCA G UGUUAUG	3907	CAURAACA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUA	23028
3789	CAACCAU G UUAUGGU	3908	ACCAUAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUUG	23029
3796	UGUUAUG G UGGCAUCG	3909	CGAUGCCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAAACA	23030
3799	UUAUGUG G CAUCGUUU	3910	AAACGAUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUAA	23031
3804	GUGGCAUC G UUCUCA	3911	UUGAGAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGCCAC	23032
3814	UUCUCAAA G CGAGAUGG	3912	CCAUCUCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAGAA	23033
3843	AACAUUU G UGAUGUU	3913	AAACAUA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUGU	23034
3849	UUGUUAU G UGGGGCG	3914	CCGCGCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCNAACA	23035
3853	UGAUGUG G CGGCUU	3915	AACAGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAUA	23036
3856	UGUUGCG G CUGUUUC	3916	GAAACAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAACA	23037
3859	UGGGGCU G UUUUCUU	3917	AAAGAAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGCCA	23038
3874	UUCAAUG G CUUAUCAC	3918	GUGAUAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUUGAA	23039
3886	AUCAGAU G CCGGCAA	3919	UUGCGGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUGAU	23040
3890	CGAUGCC G CCAAUUC	3920	GRAUUGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCAUCG	23041
3900	CAAAUUC G CUCUGGA	3921	UCCGAGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAUUG	23042
3919	UCCUGAU G UGUUGAU	3922	AUUAACA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGGA	23043
3921	CCUGAUG G UUGAAUC	3923	GAAUCAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACAGG	23044
3934	AUUCACUG G CGGUAGCU	3924	AGCUACG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGAAU	23045
3937	CACUGCG G UAGCUUG	3925	CGAAGUA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAGUG	23046
3940	UGGCGUA G CUUGGAUG	3926	CAUCCAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UACCGCA	23047
3958	UACUGAGA G CCAUAACA	3927	UGUUAUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUACUA	23048
3985	CAUCAAC G UGUUGUU	3928	AACAACA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUGAUG	23049
3988	CAACGUG G UGUUCCG	3929	CGAACA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUUUG	23050
3991	ACUGGUU G UUCGCGU	3930	CAGCGAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGU	23051
3996	GUUGUCC G CUGUAGC	3931	GUAGCAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAAACAAC	23052
3999	GUUGGCU G CUAGCCU	3932	AGGCGUAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGAAC	23053
4003	CGCUGUA G CCCUGUA	3933	UAGCAGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCAGCG	23054
4008	CUAGCCU G CUACACC	3934	GUGUUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUAG	23055
4020	ACACCGG G CUGAGAUG	3935	CAUCUCAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGGUGU	23056
4028	GCUGAGU G CUUGAAUC	3936	GAUCAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCAGC	23057
4042	AUCUGAU G UGUACAGG	3937	CCUGUACA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAGAU	23058

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4044	CUGGAUG G UACAGGAU	3938	AUCCUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCCAG	23059
4056	AGGAUACU G CUGUUGAU	3939	AUCAACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUAUCCU	23060
4059	AUACUGCU G UUGAUGU	3940	ACCAUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAUAU	23061
4066	UGUUGAUG G UCGGAUA	3941	UAUCCGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCAACA	23062
4076	CGGAUAG G CAGCTUGA	3942	UCAAGCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAUUCCG	23063
4079	AAUAGGCA G CUUGAUCA	3943	UGAUCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCUAU	23064
4100	GAAGAGGA G UGCAGCUG	3944	CAGCUGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUCU	23065
4102	AGAGGAGU G CAGCTGCA	3945	UGCAGCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCUCU	23066
4105	GGAGUGCA G CUGCAAAA	3946	UUUUGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCACUCC	23067
4108	GUGCAGCU G CAAAAAG	3947	CUUUUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUGCAC	23068
4123	AGAAAGGA G CAAGUCUG	3948	CAGACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUCU	23069
4127	AGGAGCAA G UCUCUAU	3949	AUAGCAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCUCCU	23070
4131	GCAAGUCU G CUAUGCUU	3950	AAAGCAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGACUUGC	23071
4136	UCUGCUU G CUUGGCUC	3951	GAGCCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ADAGCAGA	23072
4141	UAUGCUUG G CUCUAGCC	3952	GGCUAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCAUA	23073
4147	UGGUCUA G CCUCAACA	3953	UGUUGAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGAGCCA	23074
4180	UGAUCCUU G CUGCUGGA	3954	UCCAGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGGAUCA	23075
4183	UCCUUGCU G CUGACUG	3955	CAGUCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAAGGA	23076
4195	GACUGAU G CAUGUGAU	3956	AUCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUACAGUC	23077
4199	GAUUGCAU G UGAUCCCA	3957	UGGGAUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGCAAUC	23078
4211	UCCCAACC G UAAACGCG	3958	CCGCUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUGGGA	23079
4217	CCGUAAAC G CGAUGGC	3959	GCCAUCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUACGG	23080
4224	CGCGAUG G CCGCAAC	3960	GUUGCCGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCGCG	23081
4228	GAUGGCC G CAACUGAA	3961	UUCAGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGCCAUC	23082
4237	CAACUGAA G UGAUGACA	3962	UGUCAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAGUUG	23083
4246	UGAUGACA G CUGUCGGC	3963	GCCGACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UBUCAUA	23084
4249	UGACAGCU G UCGGCCUA	3964	UAGGCCGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUGUA	23085
4253	AGCUGUCG G CCUAUUGU	3965	ACAUUAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGACAGCU	23086
4260	GGCCUAU G UUUGCCAU	3966	AUGGCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAGGCC	23087
4264	UAUUGUU G CCAUCGUC	3967	GACGAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACAUA	23088
4270	UUGCCAUC G UCGAGGG	3968	CCUCCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUGGCA	23089
4278	GUCGGAGG G CUGGCAGA	3969	UCUGCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUCCGAC	23090
4282	GAGGCGUG G CAGAGCUU	3970	AAGCUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCUUC	23091
4287	CUGGCAGA G CUUACAU	3971	AUGUCAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGCCAG	23092
4306	ACUCCAUG G CCAUCCA	3972	UGAAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGGAGU	23093
4324	UGACUAUC G CGGGCUC	3973	GAGCCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUAGUCA	23094
4329	AUCGGGG G CUCAUGUU	3974	AAACAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCGCAU	23095
4335	GGGCUCAU G UUGUCUG	3975	GCAGCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAGCCC	23096
4339	UCAUGUUU G CUGCUUUC	3976	GAAGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACAUGA	23097
4342	UGUUUGCU G CUUUCGUG	3977	CACGAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAACA	23098

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4348	CUGCUUUC G UGAUUUCU	3978	AGAAUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAAGCAG	23099
4374	ACAGAUAU G UGGAUUGA	3979	UCAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUCUGU	23100
4390	AGAGAACG G CGGACAUU	3980	AAUGUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUUCUCU	23101
4409	CUGGGAAG G UGAUGCAG	3981	CUCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCGCG	23102
4414	AAAGUGAU G CAGAAAUU	3982	AAUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUUUU	23103
4427	AAUUAACG G CUCGAGCG	3983	CGUCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUAUUU	23104
4433	AGGCUAGA G CGAAAGAG	3984	CUCUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAGCCU	23105
4441	GGCAAGA G UUGAUGUG	3985	CACUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUCGC	23106
4447	GAGUUGAU G UGCAGCUU	3986	AAGCCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAACUC	23107
4449	GUUGAUGU G CGGCUUGA	3987	UCAAGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAACAAC	23108
4452	GAUGUGCG G CUUGAUGA	3988	UCAUCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACAUC	23109
4476	AACUCCA G CUAUGAA	3989	UUAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAAGUU	23110
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGAU	23111
4515	AUAUGGAU G CUCAGAAU	3991	AUUCUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUAU	23112
4525	UCAGAAUG G UCUGUCUC	3992	GAGACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUGA	23113
4529	AUUGUCU G UCUCGCGA	3993	UCGCGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACCAUU	23114
4534	UCUGUCUC G CGAUUAGU	3994	ACUAAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGACAGA	23115
4541	CGCGAUUA G UGCUGUACA	3995	UGUACGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAAUCGCG	23116
4543	CGAUUAGU G CGUACACC	3996	GGUGUACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUUCG	23117
4545	AUUAUGCG G UACACCCC	3997	GGGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUAAU	23118
4558	CCCCUGG G CAUUCUUG	3998	CAAGAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGGGG	23119
4566	GCAUUCU G CUCUCAGU	3999	ACUGAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAUGGC	23120
4573	UGCCCUCA G UAGUUGGA	4000	UCCAACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGGGCA	23121
4576	CCUCAGUA G UUGGAUUU	4001	AAAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACTUGAGG	23122
4616	GAGAGGAG G CGUGUUGU	4002	ACACACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCUC	23123
4618	GAGAGGCG G UGUUGUGG	4003	CCACAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUCCUC	23124
4620	GGAGGCGU G UUGUGGGA	4004	UCCACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCUUC	23125
4623	GGCGUGUU G UGGACAC	4005	GUGUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGGCC	23126
4647	CCAAGGA G UACAATAA	4006	UUUUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUUGG	23127
4673	GACCACCG G CGUCUACA	4007	UGUAGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGGUC	23128
4675	CCACCGCG G UCUCACAG	4008	CCUGUAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGUGUG	23129
4694	CAUGACUC G UGGGCUGC	4009	GACGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUCAUG	23130
4698	ACUGGUG G CUGUCGCG	4010	CCGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAGU	23131
4701	CGUGGGCU G CUGGCGAG	4011	CUGCCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCACG	23132
4706	GCUGCUCG G CAGUUAUC	4012	GAUAAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGCAGC	23133
4709	GUCGCGCA G UUAUCAAG	4013	CUUGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGAGC	23134
4717	GUUAUCAA G CAGGAGCG	4014	CGUCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUAA	23135
4723	AAGCAGGA G CGGGCGUG	4015	CACGCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGCUU	23136
4727	AGAGCGG G CGUGAUGG	4016	CCAUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCUCUC	23137
4729	GAGCGGCG G UGAUGGUU	4017	AACCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGCGUC	23138

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4735	GCGUGAUG G UGAAGGU	4018	ACCUCAA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUCAGC	23139
4742	GGUUGAAG G UGUUUCC	4019	GGAACA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUCAACC	23140
4744	UUGAAGGU G UUUCCAC	4020	GUGAANA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACCUCAA	23141
4761	ACCUUUG G CAUACAAC	4021	GUUGAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAAGGUG	23142
4777	CAAAAGGA G CCGCUUG	4022	CAAGCGG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCUUUG	23143
4780	AAGGACC G CUUUGAUG	4023	CAUCAAAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGCUCU	23144
4790	UUUGAUGA G CGAGAGG	4024	CUUCUCC GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCAUCANA	23145
4799	CGAGAGG G CCGCUUG	4025	CCAGCGG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUCUCCG	23146
4802	AGAGGCC G CCUGACC	4026	GUCCAGG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGCUCU	23147
4820	AUACUGG G CAGUGUA	4027	UGACACUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCCAGUAU	23148
4823	CUGGGCA G UGUCAAG	4028	CCUGACA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGCCAG	23149
4825	GGGCGAGU G UCAAGGAG	4029	CUCCUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACUGCCC	23150
4844	UCGACUUU G UUACGGAG	4030	CUCCGUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAGUGA	23151
4866	UGGAUUU G CAGACAA	4031	UUUGCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAUUCFA	23152
4869	AAUUGCA G CACRAGU	4032	CAGUCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGCAUUU	23153
4875	CAGACAA G UGGAACGG	4033	CGUUCUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUGUCUG	23154
4884	UGGAACGG G CAGGAUGA	4034	UCAUCCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCGUCCA	23155
4894	AGGAUGAG G UGCAUGU	4035	CAUCUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUAUCCU	23156
4896	GAUGAGGU G CAGUAUG	4036	AUCAUUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACCUCAUC	23157
4906	AGAUGAUU G UGUGGAA	4037	UCCACCA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCAUCU	23158
4909	UGAUUGU G UGGAACCU	4038	AGUUCUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CACAUCU	23159
4919	GRACUUG G CAAGAACG	4039	CGUUCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGGUCC	23160
4927	GCAAGAC G UUAAGAAC	4040	GUUCUUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GUUCUUG	23161
4936	UUAAGAAC G UCCAGACG	4041	CGUCUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GUUCUUA	23162
4954	AACAGGG G UGUUCAA	4042	UUUGACA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCCUGUU	23163
4956	CCAGGGU G UUCAAAAC	4043	GUUUGAA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACCCUGG	23164
4984	AAUCCGG G CCGUACU	4044	AGUCACG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCCGAUUU	23165
4987	UCGGGCC G UGACUUUG	4045	CAAGUCA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGCCCGA	23166
5018	AACAUCAG G UCAACCAA	4046	UUGUGAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUGAUGU	23167
5029	CACCAUA G UGACAAA	4047	UUUGUCA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UAUUGUG	23168
5042	CAAAAACG G UGAUGUGA	4048	UCACAUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CGUUUUU	23169
5047	ACGUGAUU G UGAUUGGG	4049	CCCAUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCACCGU	23170
5055	UGAUGUG G CUUUAUGG	4050	CCAUAAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCAUACAC	23171
5063	GUUUUUG G CAUUGGAG	4051	CUCCAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUAAAGC	23172
5071	GCAUGGA G UCAUAUUG	4052	CAUAUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCAUUGC	23173
5079	GUCAUAU G CCAACCG	4053	CGUUGGG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUUAUGAC	23174
5087	GCCCAACG G CCAUACA	4054	UGUAUGG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CGUUGGGC	23175
5099	AUACAURA G CGGAUAG	4055	CUAUCGG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUAUGUAU	23176
5101	ACAUAAGC G CGAUAGUG	4056	CACUAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GCUUAUGU	23177
5107	GCGGAUA G UGACAGGU	4057	ACCCUGCA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UAUCGCGC	23178

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5109	GCBAUAGU G CAGGGUUA	4058	UACACCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUCGC	23179
5114	AGUCACGG G UGAAAGGA	4059	UCCUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACAU	23180
5130	AUGGAUGA G CCAAUCC	4060	GGGAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCAU	23181
5140	CAAUCCCA G CCGGAUUC	4061	GAUCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGAUUG	23182
5160	CCUGAGAU G CUGAGGAA	4062	UUCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCAGG	23183
5182	AGAUACAU G UACUGGAU	4063	AUCCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAUUC	23184
5201	CCAUCCCG G CGCCGUA	4064	UACCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGAUGG	23185
5203	AUCCCGCG G CCGGUAAA	4065	UUUACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGGAU	23186
5207	CGCGCGCG G UAAACAA	4066	UUGUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGCGCG	23187
5226	AGGAUUCU G CCACAGAU	4067	AUCUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAUCCU	23188
5245	UCAAGAG G CCAUAAAC	4068	GUUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUAUA	23189
5269	UGAGAACCA G CCGUGCUA	4069	UAGCACGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUCUCA	23190
5272	GAACAGCC G UGCUAGCA	4070	UGCACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGUUC	23191
5274	ACAGCCGU G CUAGCACC	4071	GGUGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGCUGU	23192
5278	CCGUGCUA G CACCAACC	4072	GGUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCAGCG	23193
5290	CAACAGG G UUGUGGCU	4073	AGCACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGUUG	23194
5293	CCAGGGUU G UGGUGUCU	4074	AGACCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCTUGG	23195
5296	GGGUUGUG G CUGCUGAG	4075	CUACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAACCC	23196
5299	UUGUGGCU G CUGAGAUG	4076	CAUCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCACAA	23197
5308	CUGAGAU G CUGAAGCA	4077	UGCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUCAG	23198
5314	UGGUUGAA G CACUGGA	4078	UCUAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGCCA	23199
5328	AGAGACU G CCAUCCG	4079	CGAUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCUCU	23200
5337	CCCAUCCG G UACCAGAC	4080	GUUGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGAUGG	23201
5350	AGACAUCC G CAGUGCCC	4081	GGGCACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAUGUCU	23202
5353	CAUCCGCA G UGCCCAGA	4082	UCUGGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGGAUG	23203
5355	UCCGCAGU G CCCAGAGA	4083	UCUCUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCGGA	23204
5383	AUGAGAUU G UUGAUGUC	4084	GACAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUCAU	23205
5389	UUGUUGAU G UCAUGUGU	4085	ACACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACAA	23206
5394	GAUGUCAU G UGUCAUGC	4086	GCAUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACAUC	23207
5396	UGUCAUGU G UCAUGCUA	4087	UAGCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUGACA	23208
5401	UGUGUCAU G CUAACCCUC	4088	GAGGGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACACA	23209
5418	ACCCACAG G CUGAUGUC	4089	GACAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUGGCU	23210
5424	AGGUGAU G UCUUCUCA	4090	UGAGGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGCCU	23211
5437	CUACAGG G UCCGGAAC	4091	GUUCGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGUGAG	23212
5439	CACAGGU G CCGAACUA	4092	UAGUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUGUG	23213
5454	UACACACU G UUGUGAU	4093	AUCACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUUGUA	23214
5458	ACUGUUC G UGAUGGAU	4094	AAUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACAGGU	23215
5470	UGAUGAG G CUCAUUC	4095	GAUAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAUCCA	23216
5488	CCGACCCA G CUAGCAUU	4096	AAUGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUGCG	23217
5492	CCAGGCUA G CAUUGCAG	4097	CUGCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCUGGG	23218

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5497	CUAGCAU G CAGCAAGA	4098	UCUUGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUAGCUAG	23219
5500	GCAUUGCA G CAAGAGU	4099	ACCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCAUUGC	23220
5507	AGCAAGAG G UUAACUUA	4100	AAAUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUGCU	23221
5524	CCACAAG G UCGAGCUA	4101	UAGCUCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUGUGG	23222
5529	AAGGUUGA G CUAGGGA	4102	UCCCUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCGACCUU	23223
5539	UAGGGAG G CGGCGGCA	4103	UGCGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCCCUUA	23224
5542	GGGAGCG G CGGCAUA	4104	UAUUGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCGCUC	23225
5545	AGGCGCG G CAUAUUC	4105	GAUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCGCGCCU	23226
5560	UCAUGACA G CCACCCCA	4106	UGGGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCUAUGA	23227
5573	CCACACAG G CACUCAG	4107	CUAAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUGUGG	23228
5595	UCCACAG G UCCAUUC	4108	GAUUGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUGGAA	23229
5641	CGGAUCGA G CUUGAAC	4109	GUUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCGAUCCG	23230
5689	GGAAGCG G UUGGUUU	4110	AAACCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGUCUCC	23231
5694	ACGGUUG G UUGUGCC	4111	GGACAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAACCGU	23232
5698	UUUGUUU G UGCCUAGU	4112	ACUAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAACCAA	23233
5700	UUUGUUU G CUUAGAU	4113	ACUAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACAACCA	23234
5705	UGUGCUA G UGUCAAGA	4114	UCUUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UAGGCACA	23235
5707	UGCCUAGU G UCAAGAUG	4115	CAUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUAGCA	23236
5728	AUGAGAUU G CCUUUGC	4116	GCAAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUCUUA	23237
5735	UGCCUUU G CCUACAAC	4117	GUUUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAAGGCA	23238
5744	CCUACAAC G UGUGGAA	4118	UUCACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUGUAGG	23239
5746	UACAAGU G CUGAAAG	4119	CUUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACGUUGA	23240
5758	GAAGAAA G UAGUCAA	4120	UUGGACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUUC	23241
5761	AGAAAGUA G UCCAAUUG	4121	CAAUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UACUUCU	23242
5778	AACAGAAA G UCGUACGA	4122	UCGUACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUUGU	23243
5781	AGAAAGU G UACGAGAC	4123	GUUCUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GACUUCU	23244
5793	GAGACGGA G UACCCAA	4124	UUUGGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCGUCU	23245
5804	CCCAAAU G UAGAACG	4125	CGUUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUUUGG	23246
5827	GGACUUU G UUAUCACA	4126	UGUGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAAGUCC	23247
5857	AAUUGGG G CUAAUUC	4127	GAAGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCCAUUU	23248
5869	ACUUCAG G CGAGCAGG	4128	CCUGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUGAAGU	23249
5873	CAAGGCGA G CAGGUGA	4129	UCACCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCGCCUUG	23250
5878	CGAGCAGG G UGAUUGAC	4130	GUCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCUGCUG	23251
5888	GAUUGACA G CCGAAGA	4131	UCUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUCRAUC	23252
5897	CCGAAGA G UGUGAAAC	4132	GUUUCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUCRAUC	23253
5899	GAAGAGA G UGAACCA	4133	UGGUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCUCC	23254
5935	AAAGAGA G UGAUCCUG	4134	CAGGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUCUCCU	23255
5956	AACCAUCU G CAGUGACA	4135	UGUCACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGAUGGUU	23256
5959	CAUCUGCA G UGACAGCA	4136	UGCUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCAUUG	23257
5965	CAGUGACA G CAGUAGU	4137	ACUAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUCACUG	23258

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5968	UGACAGCA G CUAGUGCC	4138	GGCACUAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCUUACA	23259
5972	AGCAGUA G UGCGCCC	4139	GGCGGCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UAGCUGCU	23260
5974	CAGCUAGU G CCGCCAG	4140	CUGGGCG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUAGCUG	23261
5977	CUAGUGCC G CCCAGAG	4141	UCUCUGG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGCACUAG	23262
5987	CCAGAGAC G UGAGGUA	4142	UAGGUGCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUCUCUGG	23263
5993	ACGUGGAC G UAGCGUA	4143	UACCGAUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUCACAGU	23264
5999	ACGUUCC G UAGAAUC	4144	GAUUCUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CBAUACGU	23265
6009	AGAAUCC G UCGAAGU	4145	ACUUGCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGAUUCU	23266
6012	AAUCGUC G CAAGUUG	4146	CCACUUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GACGAU	23267
6016	CGUCGCA G UUGUGAU	4147	AUCACCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGGACG	23268
6020	GCAAGUG G UGAUGAU	4148	ACUCAUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAACUUGC	23269
6027	GGUGAUG G UACUGUA	4149	UAACAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAUCACC	23270
6032	UAGGUACU G UUAUGGG	4150	CCCCAUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUACUCA	23271
6042	UAUGGGG G CACAGAA	4151	UUCGUGG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCCCACA	23272
6070	CGAAUUC G CCAUUGG	4152	CCAAUGG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAAUUCG	23273
6085	GGACUGG G CACGAAU	4153	GAUUCUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCAGUCC	23274
6096	CGAAUACU G CCAACGG	4154	UUGUCCAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGAUUCG	23275
6114	AUCACAU G CCAACGG	4155	CGUUGG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGUUGAU	23276
6130	GACUGUC G CUAUUC	4156	GAUUGAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAUCAGUC	23277
6150	CAACAGG G CGUGAG	4157	UUCUCAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUGUUG	23278
6152	ACAGAGC G UGAGAGG	4158	CCUUCUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCUCUGU	23279
6160	UGAGAGG G UAUUACC	4159	GGUAUAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUCUCAC	23280
6186	GAUACCG G CUCAGAG	4160	CCUCUAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCGUAUUC	23281
6222	CUGGAUCU G UUGAGGAC	4161	GUCCUAA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUUCACG	23282
6232	UGAGGACU G CAGAUUG	4162	CAGAUUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUCCUCA	23283
6240	GCAUUCU G CCAUUG	4163	CAACUUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGAUCUGC	23284
6244	AUCUGCCA G UUGGCGU	4164	CAGCACA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGGCAGAU	23285
6249	CAGUUUG G CUGGCUUA	4165	UAAGCCG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAAACUGG	23286
6253	UUGGCGU G CUUACAG	4166	CUUGUAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGCCAAA	23287
6262	CUUACAG G UUGCAGG	4167	CGUGCAA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUGUAG	23288
6265	ACAAGGUU G CAGCGGU	4168	AGCCGUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AACUUGU	23289
6268	AGGUUGCA G CGGUGGA	4169	UCCAGCG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCAACCU	23290
6271	UUGCAGG G CUGGAGU	4170	CACUCCG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGCUGCAA	23291
6277	CGGUGGA G UGUCAUAC	4171	GUUAGCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCAGCCG	23292
6279	GUUGGAGU G UGAUACCA	4172	UUGUAGA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCCAGC	23293
6297	GACCGGAG G UGUUGCU	4173	AAGCACA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCCGUC	23294
6300	CGGAGGUG G UGUUGUA	4174	UCAAGCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACCUCCG	23295
6302	GAGGUGU G CUUUGAU	4175	CAUCAA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACCACUCC	23296
6311	CUUUGAU G UCCUAGGA	4176	UCCUAGG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUCAAG	23297
6349	ACAACGAA G UGGAAGUC	4177	GACUCCA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCGUGU	23298

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6355	AAGUGNA G UCAUCAGG	4178	CGUGAUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACUUG	23299
6366	AUCACGAA G CUUGUGA	4179	UCACCAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUGAU	23300
6371	GAGGCUUG G UGAAAGGA	4180	UCCUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUGAU	23301
6390	AUUCUAG G CCBCGCU	4181	CAGCGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUACAGAU	23302
6393	CUAGGCC G CCGUGAU	4182	AUCCAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCBCGCU	23303
6395	GAGGCGC G CUGGAUUG	4183	CAUCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCBCGCU	23304
6406	GGAUAGC G CCAAGGUG	4184	CACCCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUCAAUCC	23305
6412	AGCCAGG G UGUACUG	4185	CGAGUACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CTUGGCGU	23306
6414	GCCAGGU G UACUGGA	4186	UCCGAGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCCUGGC	23307
6430	AUCACGAG G CACUAAAG	4187	CUUUAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGUGAU	23308
6439	CACUAAAG G CBUUCAAG	4188	CUUGAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUAUG	23309
6441	CUAAGGC G UUCAAGGA	4189	UCCUUGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCTUAG	23310
6454	AGGACUUC G CCUCGGGA	4190	UCCGAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAAGUCCU	23311
6467	GGGAAAC G UUCUCAGA	4191	UCUGAGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUUCCC	23312
6480	CAGUAGG G CUCAUUGA	4192	UCCUAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUAUCUG	23313
6490	CAUUGAG G UUCUGGA	4193	UCCAGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCAUGA	23314
6504	GGAAAGU G CCUGAGCA	4194	UGUCAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUUUCC	23315
6510	AUGCCUGA G CACUUCAU	4195	AUGAAGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGCAU	23316
6535	CAUGGAA G CACUUGAC	4196	GUCAAGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUG	23317
6549	GACACCAU G UACUUGU	4197	ACAAAGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGUGUC	23318
6553	CCAUGUAC G UUGUGGC	4198	GGCACAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUACAUUG	23319
6556	UGUAGGU G UGGCCACU	4199	AGUGGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACGUACA	23320
6559	ACGUUGU G CCACUGCA	4200	UGCAGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAACGU	23321
6565	UGGCCACU G CAGAGAA	4201	UUUCUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGGCCA	23322
6583	GAGGAAGA G CUACAGA	4202	UCUGUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUCUUC	23323
6595	ACAGAAUG G CCUGGAG	4203	CUCCAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUUCUGU	23324
6609	GAGGACU G CCAGAUCC	4204	GCAUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUCUUC	23325
6616	UGCCAGAU G CUUUCAG	4205	CUGAAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUGGCA	23326
6631	AGACAAU G CCUUGAUU	4206	AAUCAAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUUGUCU	23327
6640	CUUUGAUU G CCUUAUUG	4207	CAUAAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUCAAGG	23328
6650	CUUAUGA G UGUGAUGA	4208	UCAUCACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUAUAG	23329
6652	UAUUGAGU G UGAUGACC	4209	GUCAUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCAUA	23330
6667	CAUUGGGA G UAUUCUUC	4210	GAAGAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGG	23331
6684	CUCCUACU G CAGCGAA	4211	UUCCGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGG	23332
6687	CUCAUGCA G CGGAAGGG	4212	CCUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGG	23333
6695	CGGAAGG G CAUUGGAA	4213	UUCCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGG	23334
6710	AAAGUAG G UUUUGGAG	4214	CUCCCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAUCUUC	23335
6719	UUUGGAG G CGCUGUCU	4215	AGACAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCCAA	23336
6721	UGGAGGC G CUGUCUUG	4216	CAAGACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCUCCA	23337
6724	GAGGCGCU G UCUUGGGA	4217	UCCCAAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCGCCUC	23338

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6733	UCUUGGA G UCGGACC	4218	GGUCCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCCAAGA	23339
6736	UGGAGUC G CGACUUU	4219	AAAGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GACUCCCA	23340
6749	CUUUUCU G UUGAUGG	4220	CAUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGAAAAG	23341
6757	GUUGAUG G CUGAAGU	4221	AAUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUCCAC	23342
6763	UGGUGAA G UUCAGGA	4222	UCCUGNA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCAGCCA	23343
6781	CGAAGUC G CCGAUG	4223	CAUCCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAUCUUG	23344
6789	GCCGAU G UUGCUGU	4224	AGCAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUCGGC	23345
6792	GGAAUGU G UUGCUCU	4225	GAGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AACAUUC	23346
6795	AUGUUGU G CUCUCCU	4226	AGGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGCAUCA	23347
6817	UGAUGAU G UGCUAAU	4227	AAUAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAUACUA	23348
6819	AUGAUGU G CUAAUUC	4228	GGAAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACAUCAU	23349
6831	AUUCUGA G CCAGAGAA	4229	UUCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCAGAAU	23350
6840	CCAGAGAA G CAAGGUUC	4230	GAACGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCUUGG	23351
6845	GAAGCAAC G UUCGAGA	4231	UCUGCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUUGUUC	23352
6849	CAAGUUC G CAGACAGA	4232	UCUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAACGUU	23353
6864	GACAACCA G CUAGCCGU	4233	ACGGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAGUUGU	23354
6868	ACCAGUA G CCGUUCU	4234	GAACACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAGCUUGU	23355
6871	AGCUAGC G UGUUCCUG	4235	CAGGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUAGCU	23356
6873	CUAGCCGU G UUCUGAU	4236	AUCAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACAGCUAG	23357
6884	CCUGAUU G UGUCAUGA	4237	UCAUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAUACAG	23358
6886	UGAUUUGU G UCAUGACC	4238	GGUCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACAAUCA	23359
6898	UGACCCUU G UGAGCGCA	4239	UGCUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAGGUCA	23360
6902	CCUUGUA G CGAGUGG	4240	CCACUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCACAAG	23361
6904	UUGUGAG G CAGUGGCA	4241	UGCCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUCACAA	23362
6907	UGAGCGCA G UGGCAGCC	4242	GGCUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCGCUA	23363
6910	GCGCAGU G CAGCCAAC	4243	GUUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CACUGGC	23364
6913	CAGUGGCA G CCAACGAG	4244	CUCGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCCACU	23365
6926	CGAAGUG G UUGGCUAG	4245	CUAGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CCAUUCG	23366
6930	AUGGUUG G CUAGAUA	4246	UUAUCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAACCAU	23367
6947	GACCAAGA G UGACAUAA	4247	UUAUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUUGUC	23368
6956	UGACAUAA G CAGUUGU	4248	ACAACTUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUAUGUA	23369
6959	CAUAGCA G UUGUUGU	4249	CAACAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUUUG	23370
6963	AGCAUUU G UUGGGCA	4250	UGCCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAACUGU	23371
6969	UUGUUGG G CAAGAAU	4251	AUUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CCAACAA	23372
6982	GAUUGAG G UCAAGGAG	4252	CUCCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUCAUUC	23373
6998	GAUUUCA G CAUGGGAG	4253	CUCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGAAUUC	23374
7008	UUGGAGA G UUUUUUU	4254	AAAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUCCAU	23375
7026	GAGUUGA G CCGGCAC	4255	GAUGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUCAAGUC	23376
7030	UGAGGCG G CAACAGCC	4256	GGCUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGSCUCA	23377
7036	CGCAACA G CCUGGUA	4257	UGACCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUUGCG	23378

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7041	ACAGCCUG G UCACUGUA	4258	UACAGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGCUGU	23379
7047	UGGUCACU G UACGUGU	4259	ACAGCGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGACCA	23380
7051	CACUGUAC G CUGUGACA	4260	UGUCACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACAGUG	23381
7054	UGUACGUG G UGACACAA	4261	UGUUGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGUACA	23382
7063	UGACACAA G CGUCCUC	4262	UGGAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUCA	23383
7066	CAACAGCG G UCCUCACU	4263	AGUGAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUGUUG	23384
7080	ACUCCACU G CUAAAGCA	4264	UGCUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAGUG	23385
7086	CUGCUAAA G CAUUGAU	4265	AUCAAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUAGCAG	23386
7098	UUGAUCAC G UCAGAUUA	4266	UUAUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUCAA	23387
7135	CAUUAAC G UUCAGGCA	4267	UGCCUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUTUAUUG	23388
7141	ACGUUCAG G CAAGUGCA	4268	UGACUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAACGU	23389
7145	UCAGGCAA G UGCACUUA	4269	AUAGUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCUGA	23390
7147	AGGCAAGU G CACUAUUC	4270	GAUAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGCCU	23391
7162	UCACACUC G CGCAGGCG	4271	GCUCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUGUGA	23392
7164	ACACUGGC G CGAGGCUU	4272	AAGCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAGUGU	23393
7169	CGCGGAG G CUUCCCCU	4273	AGGGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGCGCG	23394
7180	UCCCUUC G UCGAUGUU	4274	AACAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAGGGGA	23395
7186	UCGUGCAU G UUGAGGUG	4275	CACUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGACGA	23396
7192	AUGUUGGA G UGUJGGCU	4276	AGCGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAACU	23397
7194	GUUGGAGU G UCGGCUCU	4277	AGAGCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCAAC	23398
7198	GAGUUGCG G CUCUCCUG	4278	CAGGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACACUC	23399
7206	GCUCUCCU G CUGAGCAG	4279	GCUGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGAGC	23400
7210	UCUUGCUA G CAGCGGGA	4280	UCCGGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCAGGA	23401
7213	UGCUAGCA G CCGGAUGC	4281	GCAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUAGCA	23402
7220	AGCGGGAU G CUGGGGAC	4282	GUCCCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGGGCU	23403
7231	GGGACAA G UCACCCUC	4283	GAGGGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUCCCC	23404
7243	CCUCACC G UUACGGUA	4284	UACCGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUGAGGG	23405
7249	CGUUACG G UACAGCG	4285	CGCUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUACGG	23406
7255	CGUUAACA G CGCAACA	4286	UGUUGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUACCG	23407
7258	UAACAGCG G CAACACUC	4287	GAGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUGUUA	23408
7274	CCUUUUU G CCACUAUG	4288	CAUAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAAAGG	23409
7282	GCACUAU G CUAACAUG	4289	CAUGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAGUGGC	23410
7291	CUUACAUG G UUCOCGGU	4290	ACCGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGAGG	23411
7298	GUUCCCG G UUGGCAAG	4291	CUUGCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGAACC	23412
7302	CCGGUUG G CAAGCUGA	4292	UCAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCCGGG	23413
7306	GUUGGCAA G CUGAGGCA	4293	UGCCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCAAC	23414
7312	AAGCUGAG G CAUUGCG	4294	GCGCAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUACAGCU	23415
7317	GAGGCAAU G CGCUCAGC	4295	GCUCAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGCCUC	23416
7319	GGCAUUG G CUCAGGCC	4296	GGGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAUUGCC	23417
7324	UGGCUCA G CCGAGCGG	4297	CCGUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGCGCA	23418

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7329	UCAGCCCA G CGGCGAC	4298	GUCCGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGGGCUGA	23419
7332	GCCAGCG G CGGACAGC	4299	GCUGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGCGGGC	23420
7339	GGCGGACA G CGGCCGGA	4300	UCCGGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUCGGC	23421
7342	GGACAGCG G CGGGAUC	4301	GAUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGUCGUC	23422
7360	UGAAGAAC G CUGUAGUG	4302	CACUACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUCUUCU	23423
7363	AGAACCGU G UAGUGGAU	4303	AUCCACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGCGUUCU	23424
7366	AGCGUGU G UAGUGGC	4304	GCCAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UACAGCGU	23425
7373	AGUGGAUG G CAUCGUGG	4305	CCACGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUCCACU	23426
7378	AUGGCAUC G UGGCCAGC	4306	CGUGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAUGCCAU	23427
7381	GCAUCBUC G CCACGGAC	4307	GUCCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GACGUAUC	23428
7390	CCACGGAC G UCCGAGAA	4308	UUCUGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUCCGUGG	23429
7404	GAUUGAG G CGCACAC	4309	GUUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUGAUUGG	23430
7406	AUUGAGC G CACCACAC	4310	UUCUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GCUCUAU	23431
7422	CCCAUCAU G CAGAAGAA	4311	CUGUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUGAUUGG	23432
7432	AGAGAAU G UUGGACAG	4312	AAGAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCUUCU	23433
7446	CAGAUCAU G CUGAUCU	4313	UAGAGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CRAGAUCA	23434
7456	UGAUCUUG G UGUCUCUA	4314	GUAGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACCAAGAU	23435
7458	AUCUUGU G UCUCUAGC	4315	UACUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAGAGACA	23436
7465	UGUCUCUA G CUGCAGUA	4316	UACUACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGCUGAG	23437
7468	CUCUAGCU G CAGUAGUA	4317	CACUACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGACGCUA	23438
7471	UAGCUGCA G UAGUAGUG	4318	GUACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGACGCUA	23439
7474	CUGAGUA G UAGUGAAC	4319	CGGCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UACUGCAG	23440
7477	CAGUAGUA G UGAACCCG	4320	UUCACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UACUACUG	23441
7485	UGAACC G UCUGUGAA	4321	UGUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUUUCAC	23442
7489	ACCGUCU G UGAAGACA	4322	UUCUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGACGGU	23443
7498	UGAAGACA G UACGAGAA	4323	AAUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUCUUA	23444
7507	UACGAGAA G CCGGAUU	4324	CGCUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCUCUA	23445
7525	UGAUCACG G CCGAGCG	4325	CACCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGUGAUCA	23446
7528	UACGGCC G CAGCGUG	4326	CGCUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGCUGUA	23447
7531	CGGCCGCA G CGUGACG	4327	CGUCACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCGCGC	23448
7534	CGCAGCG G UGACGCUU	4328	AAGCGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGCUGCG	23449
7539	GCGUGAC G CUUUGGA	4329	UCCCAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUCACCGC	23450
7555	AGAAUGA G CAGCUCU	4330	AGAGCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUGCUCA	23451
7559	UGGAGCAA G CUCUGUU	4331	AAACAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCGUUA	23452
7564	UAGCUCU G UUUGGAAC	4332	GUUCCAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGAGCUUG	23453
7573	UUUGRAC G CAACAACU	4333	AGUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUUCCAA	23454
7582	CAACAACU G CCAUCGA	4334	UCCGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGUUGUG	23455
7595	CGGACUCU G CCACACGA	4335	UGAUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGAGUCCG	23456
7605	CACAUCU G CGUGGGG	4336	CCCCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUGAUUG	23457
7607	CAUCAUC G UGGGGUU	4337	AACCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GCAUGUG	23458

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7613	GCUGGGG G UUGUUGU	4338	ACAACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACGC	23459
7617	GGGGUUG G UUGUCAUG	4339	CAUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACCCGC	23460
7620	GGUUGGUU G UCAUGUCU	4340	AGACAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAACC	23461
7625	GUUGUCAU G UCUAUCCA	4341	UGGAUAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACAAC	23462
7682	AAAAAGAG G UGGGGCAA	4342	UUGCCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUUUU	23463
7687	GAGUGGG G CAAAAGGA	4343	UCCUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACACUC	23464
7697	AAAGGAC G CACCUUGG	4344	CCAAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCUUUU	23465
7711	UAGGAGAG G UUUUGAAA	4345	UUUCCAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCCCA	23466
7749	AAAGAAGA G UUCACUAG	4346	UUGAGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUUUU	23467
7758	UUCACUAG G UACCGCAA	4347	UUGCGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAGUAA	23468
7763	UAGGUACC G CAAAGAGG	4348	CCUCUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUACCUA	23469
7771	GCAAGAG G CCAUCAUC	4349	GAUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUUGC	23470
7783	UCAUCGAA G UCGAUCGC	4350	GCGAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGAUGA	23471
7790	AGUCGAUC G CUCAGCGG	4351	CCGCUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCGACU	23472
7795	AUCGCUCA G CGGCAAAA	4352	UUUUGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGCGAU	23473
7798	GCUCAGCG G CAAAACAC	4353	GUGUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUBAGC	23474
7807	CAAAACAC G CAGGAAA	4354	UUUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUUUUG	23475
7820	GAAAGAAG G CAUUGUCA	4355	UGACAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUUUC	23476
7825	AAGGCAAU G UCACUGA	4356	UCCAGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGCCUU	23477
7836	ACUGGAGG G CAUCCAGU	4357	ACUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCAGU	23478
7843	GCAUCCA G UCUCUAGG	4358	CUACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAUGCC	23479
7853	CUUAGGG G CACAGCAA	4359	UUGCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUAGAG	23480
7858	GGGCGACA G CAAACUUG	4360	CAGUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGCCCC	23481
7872	CUGAGAUG G CUGGUCCA	4361	UCGACCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUCAG	23482
7876	GAUGGCUUG G UCGAACGG	4362	CCGUUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCAUC	23483
7887	GAACGGAG G UUUUCUGA	4363	UCGAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGUUC	23484
7900	UCGAACCG G UCGGAAAA	4364	UUUUCGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUUCGA	23485
7909	UCGGAAAA G UGAUUGAC	4365	GUCAAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUCCGA	23486
7925	CCUUGGAU G UGGAAGAG	4366	CCUUCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAAGG	23487
7934	UGGAAGAG G CGGUUGGU	4367	ACCAACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUCCA	23488
7937	AAGAGGCG G UUGGUUUU	4368	AACACCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCUUCU	23489
7941	GGCGGUUG G UGUUACUA	4369	UAGUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACCGCC	23490
7943	CGGUUGGU G UUAUAUA	4370	UAUAGUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAACCG	23491
7954	ACUAUAUG G CAACCCAA	4371	UUGGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUAGU	23492
7969	AAAAAAGA G UCCAAGAA	4372	UUCUUGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUUUU	23493
7978	UCCAGAA G UCAGAGG	4373	CCCUCGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUGGA	23494
7986	GUCAGAGG G UACACAAA	4374	UUUGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUGAC	23495
7997	CACAAAGG G CGGUCCCG	4375	CGGACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUUGUG	23496
8000	AAAGGGCG G UCCCGGAC	4376	GUCCGGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCUUUU	23497
8016	CAUGAAGA G CCCCACAU	4377	AGUUGGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCAUG	23498

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8026	CCCAACUA G UGCAAGU	4378	ACUUUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUUGG	23499
8028	CAACUAGU G CAAGUUA	4379	UAACUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUUG	23500
8033	AGUGCAAA G UUAUGAU	4380	AUCCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGCACU	23501
8050	GGAACAUU G UCACCAUG	4381	CAUGGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGUCC	23502
8063	CAUGAAGA G UGGAGUG	4382	CACUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUUG	23503
8068	AGAGUGGA G UGGAGUG	4383	CACAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUCU	23504
8074	GAGUGAU G UGUUCUAC	4384	GUAGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACUCU	23505
8076	GUGGAUGU G UUCUACAG	4385	CUGUAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCCAC	23506
8094	CCUUCUGA G UGUUGUGA	4386	UCACAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGAAGG	23507
8096	UUCUGAGU G UUGUGACA	4387	UGUCACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCAGAA	23508
8099	UAGUGUUU G UGACACCC	4388	GGGUGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACUCA	23509
8114	CCUCCUUU G UGACAUUG	4389	CGAUGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGGAGG	23510
8127	AUCGGAGA G UCCUGGUC	4390	GACGAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGUAU	23511
8133	GAGUCCUC G UCAAGUGC	4391	GACUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGGACUC	23512
8138	UUCUCAA G UGUGAGG	4392	CCUCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACGAG	23513
8140	CGUCAAGU G UUGAGGAG	4393	AACCTUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGACG	23514
8146	GUUGAGA G CAUAGGAC	4394	CUCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAGCAC	23515
8154	CGAUUCGG G UCCUUGAA	4395	GUCCUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUAC	23516
8170	UUGAAUUG G UUGAGGAC	4396	UUAAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAAUUG	23517
8182	GAGACUG G CUGACCG	4397	GUCCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUUCA	23518
8193	GACUGGCU G CACCGAGG	4398	CGUGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCUC	23519
8196	CACCGAGG G CCAAGGGA	4399	CCUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGUC	23520
8205	GGAAUUUU G CGUGAAGG	4400	UCCCUUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGUG	23521
8219	AAUUUGC G UGAAGGUG	4401	CCUUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUCC	23522
8227	GCGUGAAG G UGUCUGC	4402	CACUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAAAU	23523
8229	GUAGAAGU G CUCUGCCC	4403	GCAGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACGC	23524
8234	GGUGUCU G CCCCUA	4404	GGGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUUCAC	23525
8244	CCUACAU G CCGAAGU	4405	UGUAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAC	23526
8251	UGCCGAA G UCAUAGAG	4406	ACUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUAGG	23527
8258	AGAUGGA G CUGCUCA	4407	CUCUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGGCA	23528
8271	AUGGAGCU G CUCCAACG	4408	UGGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUCU	23529
8279	GUCCCAAC G CCGUAUG	4409	CGUUGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCCAU	23530
8283	CAACGCC G UAUUGGGG	4410	CAUACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGGAGC	23531
8299	GGGACUG G UCAGAAAC	4411	CCCCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAAU	23532
8328	AAUCCAC G CACGAGAU	4412	GUUDUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCCC	23533
8337	CACGAGAU G UAUUGGU	4413	AUCUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGAAU	23534
8344	UUGAUUGG G UGAGUCGA	4414	ACCCAAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCUG	23535
8348	UUGGUGA G UCGAGGUU	4415	UCGACUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAUACA	23536
8353	UGAGUCA G CUUCAGGC	4416	AAGUCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACCCAA	23537
		4417	GCCUGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUCA	23538

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8360	AGCUUCAG G CAUUGGG	4418	CCACAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CUGAAGCU	23539
8365	CAGGCAU G UGUACAU	4419	AUGUACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG AUUGCCUG	23540
8368	GCAUUG G UACAUUCA	4420	UGAAUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CACAUCGC	23541
8377	UACAUUCA G UGAUAUG	4421	CAUACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGAUUGUA	23542
8390	UAUGACCA G CCAGGUGC	4422	CAUUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGGUCAUA	23543
8395	CCAGCCAG G UGCUCCUA	4423	UAGGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CUGGCGUG	23544
8397	AGCAGGU G CUCCUAGG	4424	CCUAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG ACUGGGCU	23545
8452	AGGAGAU G UAAACUUG	4425	CAAGUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG AUCUUCUU	23546
8465	CUUGGGAA G UGGAACCA	4426	UGGUUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UUCCCAAG	23547
8476	GAACCCAG G CGUGGGA	4427	UCCACCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CCUGGUUC	23548
8479	CAAGGGCG G UGGGAAA	4428	UUUUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG AGGGGUUU	23550
8493	AAACCCU G CUCAACUC	4429	GAGUUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGGUGUCU	23551
8510	AGACACCA G UAAAUUCA	4430	UGAUUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CUGAGUCG	23552
8541	CGACUCAG G CGUGAGUA	4431	UACUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG GCCUGAGU	23553
8543	ACUCAGGC G UGAGUACA	4432	UGUACUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CACGUCGA	23554
8547	AGCGGUA G UACAGUUC	4433	GAACUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UACGUCUU	23555
8552	UAGUACA G UUCGACGU	4434	ACGUGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG GUCGACU	23556
8559	AGUUCAG G UGGACCA	4435	UGUGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CACGUCGA	23557
8562	UGGACUG G CACCACGA	4436	UGUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGGUGUCU	23558
8606	CUAUCAG G CAGUUAUG	4437	CAUAACTUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CGUGUAG	23559
8609	UACGCGCA G UUAUGAUG	4438	CAUUAUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGCCGUGA	23560
8617	GUUAUGAU G UGAAGCCC	4439	GGGCUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG AUCUAUAC	23561
8622	GAUGUAA G CCCACAGG	4440	CCUGUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UUCACAUU	23562
8630	GCCACAG G CUCCGCCA	4441	UGGCGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CUGUGGGC	23563
8635	CAGGCUCC G CCAGUUCG	4442	CGAACTUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG GGAGCCUG	23564
8639	CUCGCGCA G UUCGUCUG	4443	CCAGCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGGCGGAG	23565
8643	GCCAGUUC G CUGGUCAA	4444	UUGACCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG GAACUGGC	23566
8647	GUUCGUG G UCAAUUGA	4445	UCCAUTGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UCCAUUGA	23567
8656	UCAUUGA G UGGUCAGG	4446	CTUGACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CACUCCAU	23568
8659	AUGGAGUG G UCAGGCUC	4447	GAGCCTGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CUGACCAC	23569
8664	GUGGUCAG G CUCCUCUC	4448	GAGGAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG AUUCGUGA	23570
8698	UCACGRAU G UUAACACC	4449	GGUGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CAUGGUGG	23571
8710	CCACCAUG G CCAUGACU	4450	AGUACUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CCGAAGGG	23572
8736	CCUUCGCG G CAGCAGCG	4451	CGUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGCCGAA	23573
8739	UUCGGGCA G CAGCAGU	4452	ACUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UGCUGCCC	23574
8742	GGGCAGCA G CGAGUGUU	4453	AACACUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UCGUGUCU	23575
8746	AGCAGCGA G UGUUCAAA	4454	UUUGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG ACUGCUG	23576
8748	CAGCAGU G UUCAAGA	4455	UCUUUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG CUUCUCUU	23577
8761	AAGAGAG G UGGACACG	4456	CGUGUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC	UCCGGG UUCUGUUB	23578
8773	ACACGAA G CUCCUGAA	4457	UUCAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC		

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8784	CCUGAAC G CCAAGG	4458	CCUUCUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUCAGG	23579
8794	CAGAAGG G UGAGUAC	4459	GUACUUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUCUG	23580
8799	GGAGUGA G UACGUGU	4460	AGCACGU GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCACUCC	23581
8803	UGAGUAC G UGCUAAU	4461	AUUGAGC GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUACUUA	23582
8805	AAGUACG G CUCAUGA	4462	UAUUGAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUACUU	23583
8826	ACCACTG G UUGGGG	4463	GCCACAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUUGGU	23584
8829	AACUGGU G UGGCGUU	4464	AACGCCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACGAGUU	23585
8833	GGUUGG G CGUUUUU	4465	CAAAACG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCACAACC	23586
8835	UUGUGGC G UUUUUGG	4466	GCCAAAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCACAA	23587
8842	CGUUUUG G CCAAGAA	4467	UUCUCUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAAACG	23588
8855	AGAAAAC G UCCAGAA	4468	UUCUGGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUUUCU	23589
8865	CCAGAAU G UCCUCUG	4469	CGAGAGC GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCUGG	23590
8867	CAGAGU G UUCUGAG	4470	CUGAGAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCUG	23591
8893	UAGAAAG G UCAACAG	4471	GUUUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUUUUA	23592
8900	GGUACAA G CAAUGCAG	4472	CUGCAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGACC	23593
8905	ACAGCAU G CAGCUUG	4473	CAAGCUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGCUGU	23594
8908	GCAUGCA G CUUUGGU	4474	ACCAAAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAUUGC	23595
8915	AGCUUGG G UGCCAUG	4475	ACAUGCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAAAGCU	23596
8917	CUUUGGU G CCAUGUU	4476	AAACAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCCAAAG	23597
8922	GUUGCCA G UUUAGA	4477	UCUCAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGCACC	23598
8931	UUUGAGA G CAGAUCA	4478	UGAUUCG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUCAAA	23599
8948	AUGAGGA G CGCCAGG	4479	CUCUGCG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCCAU	23600
8950	GGAGGAG G CCAGAGAA	4480	UUCUCUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GTUCCUCC	23601
8959	CCAGAGAA G CAGUAGAA	4481	UUCAACTG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUUGG	23602
8962	GAAGACA G UUGAAGAU	4482	AUCUCAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCUUCUC	23603
8989	GGAGUUG G UGAGUAG	4483	CUCAUCC GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCUCC	23604
9000	GAUGAGA G CGCGAGC	4484	GCCUCGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCAUC	23605
9002	UGAGGAG G CGAGGCAC	4485	GUGCUCG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GTUCCUCA	23606
9007	AGCGCAG G CACAUCG	4486	CAGAUGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGCGCU	23607
9015	GCACUUC G CGGGGGA	4487	UCCCCCG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAUGUGC	23608
9026	GGGGAAU G UCACACUU	4488	AAGUUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCUCCC	23609
9035	UCACACUU G CAUUUACA	4489	UGUAAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGUUGA	23610
9078	CCGGGAG G UUGGAAA	4490	UUCCGAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCCGG	23611
9088	UCGGAAAG G CCAAGGA	4491	UCCCUUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUCGGA	23612
9098	CAAGGGA G CAGAGCA	4492	UGGCUUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCCUG	23613
9103	GAAGCAG G CCAUUGG	4493	CCAAUGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGCUUC	23614
9111	GCAUUG G UUCAUGU	4494	CACAUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUGGC	23615
9117	UGGUUCAU G UGGUCGG	4495	CCGAGCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAACCA	23616
9120	UUCAUG G CUCGGAG	4496	GCUCGAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUAUGA	23617
9127	GGCUCGA G CUCBCUU	4497	AAAGCAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGAGC	23618

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9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAGCUCCG	23619
9141	UUUCUGGA G UUCAGGCG	4499	GCCUCGAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCAGAAA	23620
9148	AGUUCGAG G CUCUGGGU	4500	ACCCGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCGAACU	23621
9155	GGCUCUGG G UUUCUCA	4501	UGAGAAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAGAGCC	23622
9177	GACCAUG G CUUGGAAG	4502	CUUCCAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGUGGUC	23623
9203	AGGAGGAG G UGUGGAGG	4503	CCUCGACA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUCCUCU	23624
9205	GAGGAGG G UCAGGGGC	4504	GCCCUUGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCCUC	23625
9212	UGUGGAGG G CUUGGGCC	4505	GGCCCAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAGGCC	23626
9218	GGGCUUGG G CUUCCAAA	4506	UUUGAGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAGGCC	23627
9233	AAACUUGG G UUAUAUCC	4507	UUUGAGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAGGCC	23628
9243	UACAUCCU G CGUAAAGU	4508	ACUUCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAGGCC	23629
9245	CAUCCUGG G UGAAGUUG	4509	CAACUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGGAUGUA	23630
9250	UCCGUGAA G UUGGCACC	4510	GGUGCCAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGGAUG	23631
9254	UGAAGUUG G CACCCGGC	4511	GCAGGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCACGCA	23632
9261	GCACCCCG G CCUGGGGG	4512	CCGCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUCC	23633
9269	GCCUGGG G CAAGAUUC	4513	AGAUUCG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUCC	23634
9280	AGAUCUAG G CUGAUGAC	4514	GUCAUCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUCC	23635
9292	AUGACACA G CUGGCUUG	4515	CCAGCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUCC	23636
9296	CACAGCUG G CUGGGACA	4516	UGUCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUCC	23637
9308	GGACACCC G CAUCACGA	4517	UUGUGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGGUUCC	23638
9319	UCACAGGA G CUGACUUG	4518	CAAGUCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCUUGUA	23639
9337	AAAUGAA G CUGAGGUG	4519	CACCUAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCUUGUA	23640
9343	AAGCUAAG G UGCUUGAG	4520	CUCAAGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUAGCUU	23641
9345	GUUAGGU G CUGAGGCU	4521	AGUCUAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCUUGAG	23642
9351	GUUUGUGA G CUGCUUGA	4522	UUAAGCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAAGCAC	23643
9354	CUUGAGCU G CUGAUGG	4523	CUAUCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUCACG	23644
9372	GAACUUG G CGUCUUGC	4524	GCAAGACG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUCACG	23645
9374	ACAUCGC G UCUGGCCA	4525	UGGCAAGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUCACG	23646
9379	GGGUCUUG G CCAGGGCC	4526	GGCCUUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUCACG	23647
9385	UUGCCAGG G CCAUCAU	4527	AAUGAUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUCACG	23648
9396	AUCAUGA G CUCACCUA	4528	UAGGUGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAUGAU	23649
9407	CACCUAUC G UCACAAAG	4529	CUUUGUGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUAUGGUG	23650
9415	GUACACAA G UUGUGAAA	4530	UUUCACA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGUGGAC	23651
9418	ACAAAGUU G UGAAGUG	4531	CACUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUUCACU	23652
9424	UUGUGAAA G UGAAGUG	4532	GCAGUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUUCACU	23653
9429	AAAGUGAU G CGCCCGC	4533	CCCGGGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUUCACU	23654
9431	AGUGAUC G CCGCGCUG	4534	CACCGGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUUCACU	23655
9436	UUGCGCCG G CUGCUGAU	4535	AUCACAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCGGGCC	23656
9439	GCCCGGCU G CUGAUGGA	4536	UUAUCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCGGGCC	23657
9454	GAAGACC G UCAUGGAU	4537	AUCCAUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGUUUCUC	23658

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9463	UCAUGGAU G UUAUCUCC	4538	GGAGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUCCAUGA	23659
9491	GAGGGGA G UGGACAA	4539	CUUUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCCCUC	23660
9499	GUGGACAA G UUGUCACC	4540	GGUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUGUCCAC	23661
9502	GACAAGU G UACCUAC	4541	GUAGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AACUUGUC	23662
9511	UCACCUA G CCUAAAC	4542	GUUAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUAGGUA	23663
9535	CCACCUA G CCGUCAG	4543	CUAGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAGGUUG	23664
9538	ACCUAGC G UCCAGUC	4544	CAGCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GCGCAGU	23665
9543	GCGUCCA G CUGUGAG	4545	CUACACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGACGBC	23666
9547	UCCAGUC G UGAGGAG	4546	CAUCCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAGCUGA	23667
9571	GGGAAGA G UGAUUGC	4547	GCCAAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCUCCC	23668
9578	AGUGAUG G CCCAGAUG	4548	CAUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUACAU	23669
9589	CAGAUGA G UGGAGAA	4549	UUUCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUCAUCU	23670
9622	GACCCAA G UCAGACC	4550	GUUCCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUUUGGUC	23671
9633	AGGACUG G CUGUUGA	4551	UCAAACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAGGUCCU	23672
9636	ACCUGCU G UUGAGAA	4552	UUUCAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGCCAGU	23673
9642	AAGACUA G CCGCAUG	4553	CCAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGAGUCU	23674
9665	ACUCAGC G CAUGGUC	4554	CAGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUAGU	23675
9670	GCGCAUG G CUGUCAGU	4555	ACUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUGCGC	23676
9673	GCAUGCU G UCAGUGA	4556	UCCACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGCAUGC	23677
9677	GCUGUCA G UGAGAGU	4557	CAUCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGACAGC	23678
9689	AGAUGACU G UGUGGUA	4558	UUAACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGUACU	23679
9691	AUGACUGU G UGUAAAG	4559	CUUUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACACAGU	23680
9694	ACUGUGU G UAAAGCC	4560	GGGCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACACAGU	23681
9699	GUGUAAA G CCCUGA	4561	UCCAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUUACAC	23682
9713	GRAGAU G CUUUGCCA	4562	UGGCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAUCGUCC	23683
9718	AUGGCUU G CCACUUG	4563	CGAGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAAGCGAU	23684
9726	GCACCCU G CUCCACU	4564	AAGUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAGGUGC	23685
9742	UCCUCAU G CUAUGUA	4565	UGACAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUAGAGG	23686
9747	AAUGCUA G UCAAGGU	4566	ACCUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUAGCAU	23687
9754	UGUCAAG G UUCGCAA	4567	UUUGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUUUGACA	23688
9758	AAAGUUC G CAAAGAC	4568	UGUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAACUUU	23689
9774	AUCCAAG G UGGAACC	4569	GGUUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUUGAU	23690
9783	UGGAACC G UCAACUG	4570	CCAGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUUCCA	23691
9795	ACUGGAG G UAUAGU	4571	CAAUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUCCAGU	23692
9804	UAUGAUG G CAGCAGU	4572	ACUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUCCAGU	23693
9807	GAUGGCA G CAGGUCC	4573	GGAACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUCCAGU	23694
9811	GGCAGCAG G UUCCAUU	4574	AAAUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCAUUC	23695
9821	UCCAUUU G CUCAAAC	4575	GGUUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUGCUGC	23696
9868	GAACACU G UGUUCCA	4576	UGUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAGUUCU	23697
9871	CACUGUG G UCCAUCC	4577	GCAUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CACCAGU	23698

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9878	GGUCCAU G CCGAGGAC	4578	GUCCUGG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AUGGAAC	23699
9898	AUGAUUAG G UAGGAGA	4579	UCUGCUA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CHAUCAU	23700
9902	AUUGUAG G CAGAGCUC	4580	GAGCUCG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CUACCAU	23701
9907	UAGGAGA G CUCGAUA	4581	UAUGCAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG UCUGCUA	23702
9911	CAGAGCUC G CAUAUCUC	4582	GAGAUAU GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GAGCUCU	23703
9925	CUCCAGG G CCGAUGG	4583	CAUCCGG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CCGUGAG	23704
9937	GAUGAAC G UCGCGAC	4584	GUCGGGA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GUGCCAUC	23705
9941	GAACUCC G CQACACUG	4585	CAGUGUG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GAGCUUC	23706
9949	GCAGCUC G CUUGUCUG	4586	CAGACAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AGUUGGC	23707
9953	CACUCU G UCUGGCUA	4587	UAGCCAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AAGCAGU	23708
9958	CUUGUCU G CUAAGUCU	4588	AGACUAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CAGACAG	23709
9963	CUGGCUA G UCUUAGC	4589	GCAUAAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG UUAGCCAG	23710
9970	AGUCUAU G CCGAGUG	4590	CAUCUGG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AUAAGACU	23711
9978	GCCAGAU G UGGCUGU	4591	AGACGCA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AUCUGGC	23712
9981	CAGAUGU G UUGCUUCU	4592	AGAAGCAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CACAUCU	23713
9984	AUGUGGU G CUUCUGUA	4593	UACAGAA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AGCCACU	23714
9990	CUGCUUCU G UACUUGCA	4594	UGAAGUA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AGAAGCAG	23715
10011	AGAGACCU G CCGCUCU	4595	AUGAGCCG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AGUCUCU	23716
10014	GACUGCG G CUAUGGC	4596	GCCAUAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CGCAGUC	23717
10021	GGCUCU G CCAACGC	4597	GGCUGG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CAUGAGC	23718
10027	UGGCCAAC G CCAUUGC	4598	GCAAUUG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GUUGCCA	23719
10034	CGCCAUU G UCCGCUU	4599	CAGCGAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AAUUGCG	23720
10039	UUUGCUC G CUGUCUCU	4600	AGGACAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GGAGCAA	23721
10042	GCUCGCU G UCCUCUG	4601	CACAGGA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AGCGAGC	23722
10048	CUGUCCU G UGAUUGG	4602	CCAUAUA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AGGACAG	23723
10057	UGAAUUG G UCCCUACC	4603	GUAGGGA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CCAAUUA	23724
10077	AGAACCAC G UGUCCAU	4604	AUGGACA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CACUGGU	23725
10080	ACCACUG G UCCAUCCA	4605	UGGAUGA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AUGGAUG	23726
10090	CCAUCU G CAGGAGA	4606	UCCUCCU GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG UCCUCCU	23727
10101	GGAGGAG G UGGAGAC	4607	GUCAUCA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG AUGUCCU	23728
10122	GAGGACU G UUGGAGU	4608	ACUCCAA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CUCCAACA	23729
10129	UGUUGAG G UCUGAAC	4609	GUUCCAG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GGUUCCAG	23730
10139	CUGGAAC G UGUUGGA	4610	UCCAACA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG ACGUUCC	23731
10141	GAACCGU G UTUGGAUA	4611	UAUCCAA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG UGGGUUU	23732
10183	AAACCCA G UGGAGAA	4612	UUUCUCA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG UCCAUUC	23733
10196	GAAGUGA G UGACUUC	4613	GAACGUA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG GUCACUCC	23734
10201	GGAGUGAC G UCCAUUA	4614	AUAUGCA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CRAUGUC	23735
10233	GACUUG G UGUGGAC	4615	CUGCCAA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG ACCAGAU	23736
10235	CAUCUGU G UGGAGCC	4616	GGCUGCA GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CACACCA	23737
10238	CUGUGUG G CAGCUGA	4617	UCAGGUG GGA GCGGUUAGG	UCCCUUACAGGA GCGGUUAGG	UCCGG CACACCA	23738

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10241	GUGUGGCA G CCUGAUUG	4618	CAUACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCACAC	23739
10250	CCUGAUUG G CACAAGAG	4619	CUCUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACAGG	23740
10258	GCAACAG G CCCAGGC	4620	GGCUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGUGC	23741
10264	GAGCCGA G CCAGUGG	4621	CCACGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGGGCUC	23742
10269	CGAGCCAC G UGGGCAGA	4622	UUGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUCUC	23743
10273	CCACGUG G CAGAAAC	4623	GUUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACGUGG	23744
10288	ACAUCAG G UGGCUAUC	4624	GAUAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAUGU	23745
10291	UCCAGUG G CUUACAC	4625	GUUAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGGA	23746
10303	UACACCA G UCAGAGCA	4626	UGUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGUGA	23747
10309	AAGUCAG G CAUUCAC	4627	GAUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGACUU	23748
10329	GAUGAGG G UAUGUGA	4628	UCCACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCAUC	23749
10333	AGAAGUA G UGGAUAC	4629	GUUAGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACUUCU	23750
10346	UACAUAG G UUCACUA	4630	GUUUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUGUA	23751
10378	CAACUUG G UUGAGGAC	4631	GUUUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUGUA	23752
10390	AGGACAC G UACUGUAG	4632	CUACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23753
10395	ACAGUAC G UAGAUUAG	4633	AAUACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23754
10413	AAUCAAU G UAAAUAGA	4634	UUAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23755
10430	CAUUAUA G UAUGCAUA	4635	UUGCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23756
10434	AUAAGUAU G CAUAAAG	4636	CUUUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23757
10442	GCAUAAA G UGUAGUUU	4637	AAACUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23758
10444	AUAAGU G UAGUUUA	4638	UAAACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23759
10447	AAAGUGUA G UUUUAUG	4639	CUUAAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23760
10455	GUUUUAU G UAGUAUUU	4640	AAUUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23761
10458	UUAUGUA G UAUUUAGU	4641	ACUAAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23762
10465	AGUAUUUA G UGGUGUA	4642	UAACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23763
10468	AUUUAGU G UGUUAGUG	4643	CACUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23764
10470	UUAGUGU G UUAUGUA	4644	UACACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23765
10474	UGUGUUA G UGUAAUA	4645	UAUUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23766
10476	GUGUUAU G UUAAGAA	4646	ACUUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23767
10483	AGGAGAA G UCAGGCCG	4647	UUUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23768
10506	AAAGUCAG G CCGGGAAG	4648	CGGCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23769
10519	GCCGGGA G UUCGGGC	4649	CUUCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23770
10525	AAGUCCC G CCACCGGA	4650	GGCGGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23771
10535	CACCGGA G UUGAGUAG	4651	UCCGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23772
10540	GAAGUUA G UAGACGGU	4652	CUACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23773
10547	AAGUUA G UGCUGUCU	4653	ACCGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23774
10549	UAGACGU G CUGCCGUC	4654	AGGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23775
10552	ACGUGGU G CCUGCGAC	4655	CGGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23776
10556	UGUGGCU G CGACUUA	4656	GUUAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23777
		4657	UUGAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCU	23778

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10580	AGGACUGG G UGAACAAA	4658	UUUGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUCCU	23779
10589	UAAACAA G CGCGAAG	4659	CUUCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGUUA	23780
10592	ACAAAGCC G CGAAGUGA	4660	UACAUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUTUGU	23781
10597	GCCGCGNA G UGAUCCAU	4661	AUGGAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGCGGC	23782
10606	UGAUCCAU G UAGCCCU	4662	AGGCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUA	23783
10610	CCAUGUAA G CCCUCAGA	4663	UCUGAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAGG	23784
10622	UCAGAACC G UCUCGAA	4664	UUCGCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCUGA	23785
10645	CCCCACAU G UUGUACU	4665	AGUUACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUGGG	23786
10648	CACAUUU G UAACUUA	4666	UHAAGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUUG	23787
10659	ACUUCAAA G CCCAAUGU	4667	ACAUTGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUUG	23788
10666	AGCCCAU G UCAGACCA	4668	UGGUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAAGU	23789
10676	CAGACCAU G UCAGCGG	4669	CGCCCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGGCU	23790
10682	ACGCUACG G CGUGCUAC	4670	GUAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUCUG	23791
10684	GUACGGG G UGCUACUC	4671	GAGUAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUAGCGU	23792
10686	UACGGCGU G CUACUCUG	4672	CAGAGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGUAGC	23793
10694	GUACUCU G CGGAGAGU	4673	ACUCUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCCGUA	23794
10701	UGCGGAGA G UGCAGUCU	4674	AGACUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGUAGC	23795
10703	CGGAGAGU G CAGUCUGC	4675	GACAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCCG	23796
10706	AGAGUGCA G UCUGCGAU	4676	AUCGCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCACUCU	23797
10710	UGCAGUCU G CGAUAGUG	4677	CACUAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACUGCA	23798
10716	CUGCGAUA G UGCCCCAG	4678	CUGGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUUCGAG	23799
10718	GCGAUAGU G CCCAGGA	4679	UCCUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACGC	23800
10734	AGGACUGG G UUAACAAA	4680	UUUGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUCCU	23801
10744	UAAACAAG G CAAACCAA	4681	UUGGUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGUUA	23802
10754	AAACCAAC G CCCACGC	4682	GCGUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGGUUU	23803
10761	CGCCCCAC G CGGCCUA	4683	UAGGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGGGCG	23804
10764	CCACGCG G CCUAGCC	4684	GGCUAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGUGGG	23805
10770	CGGCCCUA G CCCGGUA	4685	UACCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGGGCCG	23806
10776	UAGCCCCG G UAAUGGUG	4686	CACCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGGCUA	23807
10782	CGUAUUG G UGUUAACC	4687	GUUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUAACG	23808
10784	GUAAUGG G UUAACCCAG	4688	CUGGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUUAC	23809
10794	UAAACAG G CGAAAGGA	4689	UCCUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGGUUA	23810
10809	GACUAGAG G UUAGAGGA	4690	UCCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUAGUC	23811
10824	GAGACCC G CGGUUUA	4691	UUAACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGUCUC	23812
10827	ACCCCGG G UUAUAGU	4692	ACUUAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGGGCU	23813
10834	GUUUAAA G UGCACGCG	4693	GCCUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAAAC	23814
10836	UUUAAAG G CACGCGCC	4694	GGGCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUUAAA	23815
10841	AGGACAG G CCAGCCU	4695	AGGCTGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCACU	23816
10846	AGGCCCCA G CCUGAGUG	4696	CAGUAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCGGU	23817
10857	UGACUGAA G CUGUAGGU	4697	ACCUACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGUCA	23818

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10860	CUGAAGCU G UAGGUCAG	4698	CUGACCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUUCAG	23819
10864	AGCUGUAG G UCAGGGGA	4699	UCCCCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUACAGCU	23820
10883	GACUAGAG G UUGUGGA	4700	UCCACUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGUC	23821
10887	AGAGGUUA G UGAGAGCC	4701	GGUCUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAACCUU	23822
10898	GAGACCCC G UGCACAA	4702	UUGUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGGUCUC	23823
10900	GACCCCGU G CCACAAA	4703	UUUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGGGUC	23824
10924	ACAAACA G CAUAUUGA	4704	UCAAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUGU	23825
10960	GAUUCUCU G CUCUGCAC	4705	GUGCAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGAUUC	23826
10965	UCUGUCUCU G CACAACCA	4706	UGGUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAGA	23827
10974	CACAACCA G CCACACGG	4707	CCGUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUGU	23828
10982	GCACACAG G CACAGUGC	4708	GCACUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUGGCC	23829
10987	ACGCACA G UGCGCCGA	4709	UCCGCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGCGU	23830
10989	GGCAGU G CGCCGACA	4710	UGUGCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGCC	23831
10991	CACAGUGC G CCGACAAU	4711	AUUGUGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUGUG	23832
11001	CGACAAUG G UGGCUGGU	4712	ACCAACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGUG	23833
11004	CAUUGUGU G CUGGUGGU	4713	ACCACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUUG	23834
11008	GGUGGCGU G UGGUGGGA	4714	UCCGACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCACC	23835
11011	GGCUGGUG G UCCGAGAA	4715	UCCGCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAGCC	23836
11013	CUGGUGU G CGAGACAA	4716	UGUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACAG	23837
17	GCUGUGU G AGCUGACA	5462	UGUGAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACAGGC	23838
22	UGUGAGCU G ACAACUU	5463	AAGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCACA	23839
43	GUGUUGU G AGGAUUA	5464	UUAUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACAC	23840
45	GUUUGUGA G GAUUAACA	5465	UGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACAAAC	23841
46	UUUGUGAG G AUUAACAA	5466	UUGUAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACAAA	23842
70	CACAGUGC G AGCUGUUU	5467	AAACAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUGUG	23843
87	CUUAGCAC G AAGAUCUC	5468	GAGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCUAAG	23844
90	AGCACGAA G AUCUCGAU	5469	AUCGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUGCU	23845
96	AAGAUCUC G AUGUCUAA	5470	UAGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAUUU	23846
105	AUGUCUAA G AAACCAAG	5471	CUUGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	23847
112	AGAAACCA G GAGGCCC	5472	GGGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUGUU	23848
113	GAACACAG G AGGGCCC	5473	CGGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUUC	23849
115	AACACAG G GGCCCGC	5474	GGGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUGUU	23850
116	ACCAGAG G GCCCGCA	5475	UCCGCGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGGU	23851
121	GAGGCCC G GCAAGAGC	5476	GCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCCUC	23852
126	CCCGCAA G AGCCGGC	5477	GGCCTGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCGG	23853
131	CAAGAGCC G GGCUGUCA	5478	UGACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUCUG	23854
132	AAGAGCCG G GCUGUCAA	5479	UTGACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUUU	23855
154	UAAAGCG G GAUUGCCC	5480	GGGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUUUUA	23856
155	AAAGCGG G AUUGCCC	5481	GGGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUUU	23857
177	UUGUCCUU G AUUGGACU	5482	AGUCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGACAA	23858

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181	CCUGAUU G GACUGAAG	5483	CUUCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAAGG	23859
182	CUUGAUUG G ACUGAAGA	5484	UCUUCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUCRAG	23860
186	AUUGGACU G AAGAGGGC	5485	GCCUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCAAU	23861
189	GACUGAA G AGGGCUAU	5486	AUAGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGUCC	23862
191	ACUGAAG G GGCUAUGU	5487	ACAUAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCAGU	23863
192	CUAAGAG G GCUAUGUU	5488	AACAUAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUCAG	23864
201	GCUAUGUU G AGCCUGAU	5489	AUCAGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUAGC	23865
207	UUGAGCCU G AUCGACGG	5490	CCGUCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUCAA	23866
211	GCCUGAUC G ACGGCAAG	5491	CUUGCCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAUUGGC	23867
214	UGAUCGAC G GCAAGGGG	5492	CCCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCGAUCA	23868
219	GACGGCAA G GGGCCRAU	5493	AUUGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCGUC	23869
220	ACGGCAAG G GGGCCRAU	5494	UAUUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGCCGU	23870
221	GGGCAAG G GCCRAUAC	5495	GUUUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGGCC	23871
230	GCCRAUAC G AUUUGUGU	5496	ACACAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAUUGGC	23872
240	UUUGUGUU G GCUCUCUU	5497	AAGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACAAA	23873
249	GCUCUCUU G GCGUUCUU	5498	AAGAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAGAGC	23874
260	GUUCUUA G GUUCACAG	5499	CUGAGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAGAAC	23875
279	AUUGCUC G ACCGAGC	5500	GCUGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAGCAAU	23876
284	UCCGACC G AGCAGUGC	5501	GCACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCGGA	23877
294	GCAGUCU G GAUCGAUG	5502	CAUCGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCACUGC	23878
295	CAGUCUG G AUCGAUG	5503	CAUCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCAGC	23879
299	GCUGGAC G AUGGAGAG	5504	CUUCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCCAGC	23880
302	GGAUCGAU G GAGAGGUG	5505	CACCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGAUCC	23881
303	GAUCGAUG G AGAGGUGU	5506	ACACCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCGAUC	23882
305	UCGAUGGA G AGGUGUGA	5507	GUACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUCCA	23883
307	GAUGGAGA G GUGUGAAC	5508	UGUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUCC	23884
312	AGAGGUGU G AACAAACA	5509	UGUUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCUUC	23885
327	CAACAGC G AUGAAACA	5510	AGGUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUGUUG	23886
330	ACAGCGAU G AACACCUU	5511	UUAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGCUUG	23887
342	CACCUUCU G AGUUUUA	5512	AGUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGGUG	23888
351	AGUUUUA G AAGGAACU	5513	CUUAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACAU	23889
354	UUUAAGAA G GAACUAGG	5514	CCUAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUA	23890
355	UUAAGAG G AACUAGGG	5515	CAAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUUA	23891
361	AGGAACUA G GGACCUUG	5516	UUAAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUCCU	23892
362	GGAACUAG G GACCUUGA	5517	GUACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGUCC	23893
363	GGAACUAG G ACCUUGAC	5518	GCACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGUCC	23894
369	GGGACCUU G ACCAGUGC	5519	AGCUCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGUCCC	23895
386	UAUCAUC G GCGGAGCU	5520	UUAAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUGAUA	23896
389	CAUCCGC G GAGCUCAA	5521	UUAGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGAUUG	23897
390	AAUCGCG G AGCUCAAA	5522	UUUGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCGAU	23898

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405	AAACAAA G AAAAGAGG	5523	CCUCUUU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUGUUU	23899
410	AAAGAAA G AGGAGGAA	5524	UUCUCCU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUCUUU	23900
412	AGAAAGA G GAGGAAG	5525	UUUCCUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23901
413	AGAAAGG G AGGAAGA	5526	UUUUCCU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23902
415	AAAGAGG G GAAAGACC	5527	GGUCCUU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23903
416	AAAGAGG G AAAGACCG	5528	CGUCUUU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23904
420	GAAGGAA G ACCGGAU	5529	AUCCGCU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23905
424	GAAGACC G GAUUGCA	5530	UGCAUUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23906
425	AAAGACG G AAUUGCAG	5531	CUGCAUU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23907
438	GAGUGAU G AUUGGCCU	5532	AGGCCAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23908
442	UCAUGAU G GCCUGAUC	5533	GAUCAGC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23909
447	AUUGGCU G AUCGCCAG	5534	CUGGCAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23910
460	CAAGCGA G GAGCAGU	5535	AACUGCU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23911
461	CAGCGUA G AGCAGUA	5536	UAACUGU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23912
487	ACUCCAA G GGAAGGU	5537	CACCUCC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23913
488	CUCCCAAG G GAAGGUA	5538	UACCUUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23914
489	UCCCAAG G AAGGUGU	5539	AUACCUU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23915
492	CAAGGAA G GUGAUGU	5540	AUACUAC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23916
495	GGAGAGU G AUGAUGAC	5541	GUCAUAC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23917
498	AAGGUAG G AUGACGU	5542	ACCUCAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23918
501	GUGAUGU G ACGGUA	5543	UUUACCU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23919
504	AUGAUGAC G GUAAUGC	5544	GCAUUAC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23920
517	AUGCUACU G ACGUCACA	5545	UGUGACU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23921
526	ACGUCACA G AUGUCAUC	5546	GAUGACU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23922
537	GUCAUCAC G AUUCCAAC	5547	GUUGGAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23923
553	CAGCUGU G GAAAGAAC	5548	GUUCUUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23924
554	AGCUGCU G AAAGAACC	5549	GGUUCUU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23925
558	GCUGGAA G AACCUAUG	5550	CAUAGGU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23926
575	CAUUGUA G AGCAUUG	5551	CCAUGCU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23927
582	AGAGCAU G GAUGUGG	5552	CCCAUUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23928
583	GAGCAUG G AUGUGGA	5553	UCCCAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23929
588	AUGGAUGU G GAUACAU	5554	AUGUAUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23930
589	UGGAUGU G GAUACAU	5555	CAUUAUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23931
590	GGAUGUG G AUACAU	5556	ACAUAUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23932
601	ACAUGUG G AUGAUCU	5557	AGUAUUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23933
604	UGUGCAU G AUACUAUC	5558	GAUUAUC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23934
619	UCACUAU G AAUGCCCA	5559	UGGCAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23935
636	GUGUGUC G GCUGUA	5560	UAACGAG GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23936
640	UGUGGCU G GUAAUGAU	5561	AUCAUAC GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23937
646	CUGGAU G AUCCAGAA	5562	UUCUGAU GGA GCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUU	23938

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652	AUGAUCCA G AAGACAUC	5563	GAUGUCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGAUCAU	23939
655	AUCCAGAA G ACUACGAC	5564	GUCGAUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUGGAU	23940
661	AAGACAUC G AUUGUUG	5565	CCAACAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUGUCUU	23941
668	CGACUGUU G GUACACAA	5566	UUGACAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAGUCG	23942
695	CUACGUCA G GUUUGGAA	5567	UUCCAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACGUAG	23943
700	UCAGGUUU G GAAGAUGC	5568	GCAUCUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAACCTUGA	23944
701	CAGGAUUG G AAGAUGCA	5569	UGCAUCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUACCTUG	23945
704	GUUUGGAA G AUGCACCA	5570	UGGUCAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCAUAC	23946
714	UGACCCAA G ACACGCCA	5571	UGGCGUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUGCA	23947
728	CAACUCAA G ACGCAGUC	5572	GACUCGCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGAGUGG	23948
737	ACGACUUC G GAGGUCAC	5573	GUGACUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACUGCGU	23949
738	CGCAGUC G AGGUCACU	5574	AGUACCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGACUGCG	23950
740	CAGUCGGA G GUACACUA	5575	UCAGUGAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGACUG	23951
747	AGGUCACU G ACAGUGCA	5576	UGCACUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGACCU	23952
756	ACAGUGCA G ACACACGG	5577	CCGUGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCACUGU	23953
763	AGACACAC G GAGAAAGC	5578	GCUTUCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGUGUCU	23954
764	CHACACAG G AGAAAGCA	5579	UGCUUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGUGUGUC	23955
766	CHACACAG G AAGGACU	5580	AGUGCUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUGUG	23956
780	ACUCUAGC G AACAGAA	5581	UUCUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUAGAGU	23957
786	GCGAACAA G AAGGGGCG	5582	GCCTCCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUUGCG	23958
789	AACAAGAA G GGGGCUUG	5583	CAAGCCCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUUGUU	23959
790	ACAAGAG G GGGCUUGG	5584	CAAAGCCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCUUGU	23960
791	CAAGAAG G GGUUGGA	5585	UCCAAGCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUUCUUG	23961
792	AAGAAGG G GUUGGAU	5586	AUCCAAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUUCUUG	23962
797	GGGGGCUU G GAUGGACA	5587	UGUCCAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCCCC	23963
798	GGGGCUUG G AUGGACAG	5588	UGUCCAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCCCC	23964
801	GUUGGAU G GACAGCAC	5589	GUGCUGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAAGC	23965
802	CUUGGAUG G ACAGCAC	5590	GGUGCUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCAAG	23966
813	AGCACCAA G GCCACACG	5591	CUUGUGGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUGCU	23967
821	GGCCACAA G GUUUTUGG	5592	CCAUAUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUGGCC	23968
828	AGGUUUUU G GUUAAAAC	5593	GUUUUUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUACCU	23969
838	UAAAACA G AAUCAUGG	5594	CCAUGAUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUUUUA	23970
845	AGAAUCAU G GAUCUUGA	5595	UCAAGAUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGAUUC	23971
846	GAUUAUUG G AUUUUGAG	5596	CUCAAGAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGAUUC	23972
852	UGGAUCUU G AGGAACCC	5597	GGGUUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAAGAU	23973
854	GAUCUUGA G GAACCCUG	5598	CAGGUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAAGAU	23974
855	AUCUUUGG G AACCCUUG	5599	CAAGGUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAAGAU	23975
862	GGAACCCU G GAUAUGCC	5600	GGCAUAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUUUCU	23976
863	GAACCCUG G AUUUGCCC	5601	GGCAUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGUUUC	23977
873	UAUGGCCU G GUGGCAGC	5602	GUUGCCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCAUA	23978

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876	GCCUGGU G GCAGCGU	5603	ACGGCUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCAGGGC	23979
889	CCGUCAUU G GUUGGAUG	5604	CAUCCAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUAGCGG	23980
893	CAUUGGUU G GAUGCUUG	5605	CRAAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACCAUUG	23981
894	AUUGGUUG G AUGCUUGG	5606	CCAAAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAACCAAU	23982
901	GGAUGGUU G GGAGCAAC	5607	GUUGCUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGCAUCC	23983
902	GGAUGGUU G GAGCAACA	5608	UGUUGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAAGCAU	23984
903	AUGCUUGG G AGCAACAC	5609	GUUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCAAGCAU	23985
918	ACCAUGCA G AGAGUUGU	5610	ACAAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGCAUGGU	23986
920	CAUGCAGA G AGUUGUGU	5611	ACACAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGCAUG	23987
948	UUUCUUUU G GUGGCCCC	5612	GGGGCCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAAGCAA	23988
951	CUUUGGUU G GCCCAGC	5613	GCUGGGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCAAAAG	23989
979	ACUGCCUU G GAUAGAGC	5614	GCUCAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGGCAGU	23990
980	CUGCCUUG G AAUAGACA	5615	UGCUCAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAAGGCAG	23991
984	CUUGGAU G AGCAACAG	5616	CUGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUCCAAG	23992
992	GAGCAACA G AGACUUCU	5617	AGAAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUUGCUC	23993
994	GCAACAGA G ACUUCUUG	5618	CHAGAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUUGCUC	23994
1002	GACUUCUU G GAAGGAGU	5619	ACUCCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGAAGUC	23995
1003	ACUUCUUG G AAGGAGUG	5620	CACUCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAAGAAU	23996
1006	UCUUGGAA G GAGUGUCU	5621	AGACACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCAAGA	23997
1007	CUUGGAAG G AGUGUCUG	5622	CAGACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUCCAAG	23998
1015	GAGUGUCU G GAGCAACA	5623	UGUUGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGACACUC	23999
1016	AGUGUCUG G AGCAACAU	5624	AUGUUGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGACACU	24000
1025	AGCAACAU G GUUGGAUU	5625	AAUCCACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGUUGCU	24001
1026	GCAACAU G GUGGAUUU	5626	AAUCCACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAUUGUC	24002
1029	ACUUGGUU G GAUUGGUU	5627	ACCAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCCAUGU	24003
1030	CAUUGGUU G AUUUGGUU	5628	AACCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACCCAUG	24004
1035	GUGGAUUU G GUUCUCGA	5629	UOGAARAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUCCAAC	24005
1042	UGGUUCUC G AAGGCGAC	5630	GUUGCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAGAACCA	24006
1045	UUUCUGAA G GCACAGC	5631	GCUGUCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCGAGNA	24007
1048	UCGAAGGC G ACAGCUCG	5632	GCAGUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCUUCGGA	24008
1059	AGCUGCGU G ACUAUCAU	5633	AUGAUAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACACAGCU	24009
1074	AUGUCUAA G GACAAGCC	5634	GGCUUGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUAGACAU	24010
1075	UGUCUAA G ACNAGCCU	5635	AGGUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUAGACA	24011
1090	CUACCAUC G AUGUGAAG	5636	CUACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUGGUAG	24012
1095	AUCGAUGU G AAGAUAU	5637	AUCAUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAUCCAU	24013
1098	GAUGUGAA G AUGAUGAA	5638	UUCAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCACAUC	24014
1101	GUGAAGAU G AUGAUAU	5639	AUAUUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCUUCAC	24015
1104	AAGAUAU G AAUAUGGA	5640	UCCAUAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCAUCUU	24016
1110	AUGAUAU G GAGGCGGU	5641	ACCGCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUAUCAU	24017
1111	UGAUAUUG G AGGCGGUC	5642	GACGCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUAUUCA	24018

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1113	AAUUAUGGA G GCGGUCAA	5643	UUGACCGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAUUAU	24019
1116	AUGGAGGC G GUCAACCU	5644	AGGUUGAC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCUCCAU	24020
1125	GUCAACCU G GCAGAGGU	5645	ACCUUGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUUGAC	24021
1129	ACCUGGCA G AGGUCCGC	5646	GCGGAC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCAGGU	24022
1131	CUGGCGA G GUCGCGAG	5647	CUGCGAC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUCCAG	24023
1152	UGCUAUUU G GCUACCGU	5648	ACGGUAGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUAAGCA	24024
1165	CGUCAGC G AUCUCUC	5649	GGAGAGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUGACGG	24025
1191	GCGUGCCC G ACCAUGGG	5650	CCCAUGGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGCACGC	24026
1197	CGACCAU G GGAGAAGC	5651	GCUCUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGUCCG	24027
1198	CGACCAU G GAGAAGCU	5652	AGCUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGGUCG	24028
1199	GACCAUG G AGAAGCUC	5653	GAGCUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAUGGUC	24029
1201	CCAUGGGA G AAGCUCAC	5654	GUGAGCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGG	24030
1213	CUCACAAU G ACAACGCU	5655	ACGUUUGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCACGCU	24031
1225	AACGUGCU G ACCCAGCU	5656	AGCUGGGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCUCC	24032
1244	UGUGUGCA G ACAAGGAG	5657	CUCUUGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGUCUG	24033
1249	GCAGACAA G GAGUGGUG	5658	CACCAUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCUCC	24034
1250	CAGACAG G AGUGGUGG	5659	CCACCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCCUUG	24035
1254	CAAGGAGU G GUGGAGG	5660	CUGUCCAC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAUCC	24036
1257	GGAGUGGU G GACAGGG	5661	CCCUGUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCAUCC	24037
1258	GAGUGUG G ACAGGGG	5662	GCUCUGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCUCC	24038
1262	GUUGGACA G GGGCUGGG	5663	CCAGCCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCUCC	24039
1263	GUGGACAG G GGCUGGG	5664	CCCAGCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGUCCCA	24040
1264	UGGACAG G GCUGGGG	5665	CGUUGCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCUCCU	24041
1268	CAGGGGCU G GGGCAACG	5666	CGUUGCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCUCCU	24042
1269	AGGGGCU G GGCACAGG	5667	GCUGUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGCCC	24043
1270	GGGGCUG G GCAACGGC	5668	UCCGCGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGCCC	24044
1276	GGGCAAC G GCUGCCGA	5669	AAUAUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGCCC	24045
1282	ACGGCUG G GAUAUUU	5670	AAUAUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGCCC	24046
1283	CGGCGUG G AUUAUUU	5671	CAAUAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGCCC	24047
1291	GAUAUUU G GCAAGGGA	5672	UCCUUGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUAUUC	24048
1297	UUGGCAA G GAAGCAU	5673	AAUGCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGCCA	24049
1298	UGGCAAG G AAGCAU	5674	CAUUGCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUGCCA	24050
1306	GAAGCAU G ACAUUGC	5675	GCAUGGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGCUUC	24051
1338	UCUACAA G GCAUAGG	5676	CCUAUUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUAGA	24052
1345	AGGCAUA G GAAGACC	5677	GGUUCUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUAGA	24053
1346	GGCAUAG G AAGACCA	5678	UGGUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUGGCC	24054
1349	AAUAGGA G AACCAUC	5679	AGAUGGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUUAU	24055
1359	ACCAUCU G AAGAGAA	5680	UUCUCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAUGGU	24056
1363	UCUUGAA G AGAAUUC	5681	GAUAUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCAAGA	24057
1365	UUGAAGA G AAUAUCAA	5682	UUGAUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUCUAA	24058

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1378	UCAAUAC G AAGUGGC	5683	GGCACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUACUUA	24059
1383	UACGAAGU G GCCAUUUU	5684	AAAAUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUCGUUA	24060
1399	UGUCCAU G GACCAACU	5685	AGUUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGACUA	24061
1400	UGUCCAU G ACCAACU	5686	UAGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGGACA	24062
1413	ACUACUU G GAGUGCA	5687	UAGGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAGUAGU	24063
1414	CUACUUG G AGUGCAC	5688	GUGCGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAGUAG	24064
1423	AGUGCAC G GAACUAC	5689	AGUAGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGCGACU	24065
1424	GUGCGAC G AAACUACU	5690	GUCCCAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGCGAC	24066
1440	UCCACACA G GUUGGAC	5691	AGUGGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUGUGGA	24067
1444	CACAGUU G GAGCACU	5692	GAGUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACUUGU	24068
1445	ACAGGUU G AGCCACU	5693	GUCCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUUGU	24069
1455	GCACUCA G GCAGGAG	5694	GAUUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAGUGGC	24070
1459	CUACAGCA G GGAAUUC	5695	UGAAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCUGAG	24071
1460	UCAGGAC G GAGAUUA	5696	CUGAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGCCUGA	24072
1461	CAGGAGG G AGAUUCAG	5697	UGAAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGUCCUG	24073
1463	GGCAGGCA G AUUCAGCA	5698	UGUGAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUGCCUG	24074
1482	ACUCCUG G GCGCCUUC	5699	GAAGGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCGGCC	24075
1507	UAAAGCU G GAGAAUUA	5700	AUAUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCUUUA	24076
1508	AAAGCUU G AGAAUUAU	5701	CAUAUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCUU	24077
1510	AGCUUGA G AAUAUGA	5702	UCCAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAAAGCU	24078
1516	GAGAAUUA G GAGAGGU	5703	CACUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAUUCU	24079
1517	AGAAUUA G AGAGGUA	5704	UACACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUAUUCU	24080
1519	AAUAUGA G AGGUGACA	5705	UGUACCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAUUU	24081
1521	UAUGGAG G GUGACAGU	5706	ACUGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAUUA	24082
1524	GGAGAGU G ACAGUGGA	5707	UCCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCUCUCC	24083
1530	GUGACAGU G GACUGUA	5708	UCCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUGUCAC	24084
1531	UGACAGU G ACUGUGAA	5709	UCCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUGUCA	24085
1537	UGGACUUG G AACACGG	5710	CGUGGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAGUCCA	24086
1544	UGAACAC G GUCAGGA	5711	UCCUGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGGUUCA	24087
1549	CACGGUA G GAUUGAC	5712	GUCAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACCGUG	24088
1550	ACGGUCAG G AUUGACA	5713	UGUAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGACCGU	24089
1551	CGUUCAG G AUUGACAC	5714	GUGUAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUGACCG	24090
1555	CAGGAAU G ACACCAU	5715	AUUGGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUCCUUG	24091
1575	UACUACU G AUGACUGU	5716	ACAGUAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGUAGUA	24092
1578	UAGUGAU G ACUGUUG	5717	CCAACAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAGUA	24093
1585	UGAGUUGU G GACAAAG	5718	CUUUGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAGUA	24094
1586	GACUGUUG G AACAAAG	5719	UUUUGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACAGUC	24095
1593	GAACAAA G ACUGUCU	5720	AAGAGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGUUC	24096
1602	ACUUCUU G GUCCAUCG	5721	CGAUGGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGAACGU	24097
1612	UCCAUCU G AGUGGUUC	5722	GAACACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGAUGGA	24098

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1616	UCGUGAGU G GUUCAUGG	5723	CCAUGAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCACGA	24099
1623	UGGUUCAU G GACUCUAA	5724	UUGAGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGAACCA	24100
1624	GGUUCUAG G ACCUCAAC	5725	GUUGAGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUGAACCC	24101
1640	CUCCCUUG G GAGCAGUG	5726	CACUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGGGAGG	24102
1641	CUCCCUUG G AGCAGUGC	5727	GCACUGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAGGGAG	24103
1651	GCAGUGCU G GAAGUACU	5728	AGUACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCACUGC	24104
1652	CAGUGCUG G AAGUACUG	5729	CAGUACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGCACUG	24105
1664	UACUGUGU G GAGGAACA	5730	UGUUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACACAGUA	24106
1665	ACUGUGUG G AGGAACAG	5731	CUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACACAGU	24107
1667	UGUGUGGA G GAACAGAG	5732	CUCUGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCACACA	24108
1668	GUUGUGAG G AACAGAGA	5733	UCUCUGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCACAC	24109
1673	GAGGAACA G AGAGACGU	5734	ACGUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUUCGUC	24110
1675	GGAACAGA G AGACGUUA	5735	UAAAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGUUC	24111
1677	AACAGAGA G ACGUUAU	5736	AUUAACGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUCUGUU	24112
1686	ACGUUAU G GAGUUGA	5737	UCAACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUAACGU	24113
1687	CGUUAUG G AGUUGAG	5738	CUCAAACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUUAACG	24114
1693	UGGAGUUU G AGGAACCA	5739	UGUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAACUCCA	24115
1695	GAGUUGU G GAACACACA	5740	GUUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAAAACUC	24116
1696	AGUUGAG G AACCACAC	5741	GUUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCAAACU	24117
1710	CACGCCAC G AAGCAGUC	5742	GACUGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUGGCUG	24118
1722	CAGUCUGU G AUGCAUU	5743	AAUGCUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACACACUG	24119
1731	AUAGCAUU G GGCUCACA	5744	UGUGAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUGCUAU	24120
1732	UAGCAUUG G GCUCACAA	5745	UUGUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CNAUGCUA	24121
1741	GCUCACAA G AGGAGCU	5746	AGUCUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGUAGC	24122
1743	UCACAGGA G GAGCUCU	5747	AGAGCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUCUGUA	24123
1744	CACAAGAG G GAGCUCUG	5748	CAGAGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUCUG	24124
1745	ACAGAGG G AGCUCUGC	5749	GCAGAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCUCUUG	24125
1764	CAAGCUU G GCUGGAGC	5750	GCUCACGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAGCUUG	24126
1768	CUUUGCU G GAGCAUU	5751	AAUGGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCCAAAG	24127
1769	UUUGGCU G AGCAUUC	5752	GAUUGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGCCAAA	24128
1782	AUUCUGU G GAAUUUUC	5753	GAAAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAGGAUU	24129
1783	UUUCUGU G AAUUUUA	5754	UGAAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACAGGAA	24130
1809	GUCAAGU G AGUUGGG	5755	CCGAGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACUGAC	24131
1815	UUGACGUC G GGUCAUUU	5756	AAUAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GACGUCUA	24132
1816	UGAGGUCG G GUCAUUUG	5757	CAAAUGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGACGUCA	24133
1824	GGUCAUUU G AAGUGUAG	5758	CUACACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAGUACC	24134
1832	GAAUGUA G AGUGAAGA	5759	UCUUCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UACACUUC	24135
1836	UGUAGAGU G AAGAUGGA	5760	UCCAUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCUACA	24136
1839	AGAGUGAA G AUGGAAAA	5761	UUUUCUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCACUUC	24137
1842	GUGAAGAU G GAAAUUU	5762	AAUUUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUCUAC	24138

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1843	UGAAGAUG G AAAAATUG	5763	CAAUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUCA	24139
1857	UUGCAGUU G AAGGGAC	5764	GUUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGCA	24140
1860	CAGUUGAA G GGAACAAC	5765	GUUGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACUG	24141
1861	AGUUAGA G GAACAACC	5766	GGUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCAACU	24142
1862	GUUGAAG G AACAAACU	5767	AGGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUCAC	24143
1873	CAACCUAU G GCGUCUGU	5768	ACAGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAGGUUG	24144
1887	UGUUCAA G GCUUCAA	5769	UUGAAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAACA	24145
1903	AGUUUCU G GGACUCC	5770	GGGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAAACU	24146
1904	GUUUCUG G GACUCCG	5771	CGGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGAAAC	24147
1905	UUUCUUG G ACUCCGC	5772	GCAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGAA	24148
1915	CUCCCGA G ACACAGU	5773	ACUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGGGAG	24149
1921	CAGACACA G GUCACGGC	5774	GCCGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUCUG	24150
1927	CAGGUCAC G GCACUGUG	5775	CAGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGACCUUG	24151
1935	GGCACUGU G GUGUUGGA	5776	UCCAAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUGCC	24152
1941	GUGGUGUU G GAAUUGCA	5777	UGCAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACCAC	24153
1942	UGGUGUUG G AAUUGCAG	5778	CUGAAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACACCA	24154
1957	AGUACACU G GCACGGAU	5779	AUCCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUACU	24155
1962	ACUGGAC G GAUGACCC	5780	GGUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCCAGU	24156
1963	CUGGACG G AUGGACCU	5781	AGGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCCAG	24157
1966	GCACGAAU G GACUUGC	5782	GCAAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCGUGC	24158
1967	CACGGAUG G ACCUUGCA	5783	UGCAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCGUG	24159
1995	UCGUCAGU G GCUUCAUU	5784	AAUGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGACGA	24160
2004	GUUCAUU G AACGACCU	5785	AGGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGAAGC	24161
2008	CAUUGAAC G ACCUAACG	5786	CGUUAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCAUUG	24162
2022	ACGCCAGU G GGCAGAUU	5787	AAUCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGCGU	24163
2027	AGUGGCA G AUUGUCA	5788	CAUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGCG	24164
2031	GGCAGAUU G GUCACUGU	5789	UGACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCACU	24165
2058	GUUUCAGU G GCCACGGC	5790	ACAGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUGCC	24166
2064	GUGGCCAC G GCCAACGC	5791	GCGUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGAAC	24167
2076	AACGUAU G GUCCUGAU	5792	GCGUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCCAC	24168
2082	AAGGUCCU G AUUGAAUU	5793	AUCAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCGUU	24169
2086	UCCUGAAU G AAUUGGAA	5794	AAUUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGACCUU	24170
2091	AUUGAAU G GAACACC	5795	UCCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAGGA	24171
2092	UUGAAUUG G AACCACC	5796	GGUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCAU	24172
2104	CACCUUU G GAGACUCA	5797	GGUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCAA	24173
2105	ACCCUUG G AGACUCAU	5798	UGAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGGUG	24174
2107	CCUUGGA G ACUCUAU	5799	AUGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGGUG	24175
2121	UACAUAU G GUGGGCAG	5800	GUAGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAAGG	24176
2124	AUAGUGGU G GGCAGAGG	5801	CUGCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUGUA	24177
		5802	CCUCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACUAU	24178

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2125	UAGUGUG G GCAGAGGA	5803	UCCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCACUA	24179
2129	GGUGGCA G AGGAGAAC	5804	GUUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCACC	24180
2131	UGGGCAGA G AGAACAAC	5805	UUUUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGCCCA	24181
2132	GGGCAGAG G AGAACAAC	5806	UUUUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUGCCC	24182
2134	GCAGAGGA G AACAAACAG	5807	CUGUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUUC	24183
2142	GAACAACA G AUCAAUCA	5808	UGAUUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGUGUA	24184
2156	UCACCAUU G GCACAAGU	5809	ACUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACTUGU	24185
2167	ACAAUCU G GAAGCAGC	5810	GCUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACTUGU	24186
2168	CAAGUCU G AAGCAGCA	5811	UGCUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGACUUG	24187
2179	GCAGCAUU G GCAAGCC	5812	GGCUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGCUC	24188
2206	CCUCAAA G GAGCGCAG	5813	CUUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAGGG	24189
2207	CCUCAAG G AGCGCAGA	5814	UCUGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGAGG	24190
2214	GGAGCGCA G AGACUAGC	5815	GCUAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGCUCC	24191
2216	AGCGCAGA G ACUAGCCG	5816	CGGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGGCU	24192
2230	CCGUCUA G GAGACACA	5817	UGUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGAGCGG	24193
2231	CGCUCUAG G AGACACAG	5818	CUGUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGAGCG	24194
2233	CUCUAGGA G ACACAGCU	5819	AGCUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUAGAG	24195
2243	CACAGCU G GACUUGG	5820	CAAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUGUG	24196
2244	ACAGCUUG G ACUUGGA	5821	CCAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCUGU	24197
2245	CAGCUUG G ACUUGGA	5822	UCCAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCUGU	24198
2251	GGACUUU G GAUCAGUU	5823	AACUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGUCC	24199
2252	GGACUUU G AUCAGUUG	5824	CAACUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24200
2260	GAUCAGUU G GAGGGGUG	5825	CACCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24201
2261	AUCAGUUG G AGGGGUGU	5826	ACACCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24202
2263	CAGUUGGA G GGGUGUUC	5827	GAACACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24203
2264	AGUUGGAG G GUGUUCUA	5828	UGAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24204
2265	GUUGGAG G GUGUUCAC	5829	GUAAACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24205
2281	CCUCAGUU G GGAAGGCU	5830	AGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24206
2282	CUCAGUUG G GAGGCTUG	5831	CAGCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24207
2283	UCAGUUG G AAGGCTUG	5832	ACAGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24208
2286	GUUGGGA G GCUGUCCA	5833	UGAACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24209
2305	AAGUUCU G GAGGAGCA	5834	UGCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24210
2306	AGUUGUG G AGGAGCAU	5835	AUGUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24211
2308	UGUUGGA G GAGCAUUC	5836	GAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24212
2309	GUUGGAG G AGCAUUC	5837	GAAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24213
2329	CACUGUC G GAGGCAUG	5838	CAUGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24214
2330	ACUGUUG G AGGCAUGU	5839	ACAUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24215
2332	UGUUGGA G GCAUUGCC	5840	GGACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24216
2342	CAGUUCU G GAUAGCG	5841	CGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24217
2343	AUGUCCUG G AUAACGCA	5842	UGGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24218

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2353	UACGCAA G GAUUGCUG	5843	CAGCAUC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCGUUA	24219
2354	AACGCAG G AUUGCUGG	5844	CCAGCAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGCGUU	24220
2361	GGAUUGU G GGGGCUU	5845	AGAGCCC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAUUC	24221
2362	GAUUGCU G GGGCUUC	5846	GAGAGCC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCAUUC	24222
2363	AUUGCUG G GGCUCUC	5847	GGAGAGC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGCAU	24223
2364	UUGCUGG G GCUCUCU	5848	AGGAGGC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGCAA	24224
2378	CCUGUUG G GAUGGGCA	5849	UGCCCAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	ACAACAGG	24225
2379	CUUUGUG G AUGGGCAU	5850	AUGCCAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CACAACAG	24226
2382	UUGUGAU G GCAUCA	5851	UUGAUGC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCACAA	24227
2383	UUGUGAU G GCAUCAU	5852	AUUGAUC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCACA	24228
2398	AUGCUCU G AUAGGUCC	5853	GGACCAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	ACGAGCAU	24229
2402	UCGUAUA G GUCCAUG	5854	CUAUGAC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UAUCAAGA	24230
2431	UCGCAU G GAGGAGU	5855	AACUCCU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AAUUGCGA	24231
2432	CGCAGU G AGGAGUUC	5856	GAACUCC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUGCG	24232
2434	CAGUUGA G GAGUUCUG	5857	CAGAACU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAACUG	24233
2435	AGUUGAG G AGUUCUG	5858	GCAGAAC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAACU	24234
2457	CUUCUCU G AACGUCA	5859	UGCAGUU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	ACGGAGAG	24235
2470	UGCACGU G ACACUGG	5860	CCCAGUU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AGCGUGCA	24236
2476	CUACACU G GGUUGCC	5861	GGCACCC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGUCAG	24237
2477	UGACACU G GUGUGCA	5862	UGGCACU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUGUCA	24238
2488	GUGCCAU G ACUACAG	5863	GCUGAUG GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UAUUGGAC	24239
2498	CAUCAGC G GCAAGAG	5864	GCUCUUG GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	GGCUGAUG	24240
2503	GCCGGCA G AGCUGAG	5865	UCUACGU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCCGGC	24241
2508	CAAGAGU G AGAUGUG	5866	CCACAUCU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUCUUG	24242
2510	AGAGCUGA G AUGUGAA	5867	UUCACAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGCUCU	24243
2515	UGAGAGU G GAAGUGGA	5868	UCCACUUC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCUCA	24244
2516	GAGAUGU G AAGUGAG	5869	CUCCACU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUCUC	24245
2521	GUGGAUG G GAGUGUUC	5870	GAACACU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUCAC	24246
2522	UGGAUGU G AGUGUUA	5871	UGAACAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CACUCCA	24247
2539	UACACAU G AUBUGAG	5872	CUCCACU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGUGUA	24248
2544	AUAGAUG G GAGGCUUG	5873	CAAGCCU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCAU	24249
2545	AUGAUGU G AGGCUUG	5874	CCAAGCCU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUCAU	24250
2547	GAUGUGA G GCUUGAU	5875	AUCCAAGC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACAUC	24251
2552	GGAGGCUU G GAUGACC	5876	GGUCCAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCCUCC	24252
2553	GAGGCUUG G AUGGACCG	5877	CGUCCAU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCCUC	24253
2556	GUUGGAU G GACCGUA	5878	UACCGUC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAGC	24254
2557	CUUGGAU G ACCGGUAC	5879	GUACCGU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCAAG	24255
2561	GAUGGACC G GUACAGU	5880	ACUUGUAC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	GGUCCAUC	24256
2578	AUUAACCU G AAACGCCA	5881	UGGCGUU GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUAU	24257
2590	GGCCACAA G GCCUAGCC	5882	GGCUAGC GGA GCGUUAGGC	UCCCUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUGGCG	24258

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2601	CUAGCCAA G AUCAUUA	5883	UGAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGCUAG	24259
2610	AUCAUUA G AAGCUUA	5884	UGAGCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUAUUA	24260
2622	GCUAUUA G AAGGAGU	5885	ACUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAGAG	24261
2623	CUCAUAG G AAGGAGU	5886	CACUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAUGAG	24262
2626	AUAAGGA G GAGUGGC	5887	GCACACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUUU	24263
2627	UAAGGAAG G AGUGGCG	5888	CGCACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUUA	24264
2635	GAGUGGC G GUCUACGA	5889	UCGUAGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACACUC	24265
2642	CGGUCUAC G AUCAGUU	5890	AAACUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGACCG	24266
2654	AGUUCCA G ACUGGAGC	5891	GUCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAUAACU	24267
2658	CCAGACU G AGCAUCA	5892	UGAUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUGGA	24268
2659	CCAGACU G AGCAUCA	5893	UUGAUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCUGG	24269
2672	UCAAUUG G GAAAGCAG	5894	CUGCUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUUUGA	24270
2673	CAAUUGU G GAAGCAGU	5895	ACUGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUUUG	24271
2674	AAUUGG G AAGCAGU	5896	CACUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAUUU	24272
2682	GAAGCAGU G AAGGACGA	5897	UGGUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACUGC	24273
2685	GCAGUGAA G GACGAGCU	5898	AGCUCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUACUG	24274
2686	CAGUGAAG G ACAGGCU	5899	CAGCUCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUACUG	24275
2689	UGAAGGAC G AGCUUAAC	5900	GUUCAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCUUCA	24276
2694	GACGAGU G AACACUCU	5901	AGAGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUGUC	24277
2706	ACUCUUU G AAGGAGAA	5902	UUCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAGAGU	24278
2709	CUUUUGAA G GAGAAUGG	5903	CCAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAAAAG	24279
2710	UUUUUGAG G AGAAUGGU	5904	ACCAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCAAAA	24280
2712	UUGAAGGA G AAUGGUGU	5905	ACACCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCAAAA	24281
2716	AGGAGAAU G GUGUGGAC	5906	GUCCACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUCCU	24282
2721	AAUGGUGU G ACCUUUAG	5907	CUAAGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAUU	24283
2722	AUGGUGUG G ACCUUUAG	5908	ACUAAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAUU	24284
2736	AGUGUCGU G GUUGAGAA	5909	UUCUCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAUU	24285
2740	UCGUGGUU G AGAAACAG	5910	CUGUUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAUU	24286
2742	GUGGUUGA G AAACACGA	5911	UCCUGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAUU	24287
2748	GAGAAACA G GAGGGAU	5912	AUUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACCCAC	24288
2749	AGAAACAG G AGGGAUUG	5913	CAUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24289
2751	AAACAGGA G GGAUGUA	5914	UACAUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24290
2752	AACAGGAG G GAAUGUAC	5915	GUACAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24291
2753	ACAGGAGG G AAUGUACA	5916	UGUAUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24292
2793	GCCACAC G GAAAUUU	5917	AAUUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24293
2794	CCACCAGG G AAAAUUU	5918	CAAUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24294
2802	GAUAAAU G GAAAUUGG	5919	CCAAUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	24295
2803	AAAUUUUG G AAUUUGGC	5920	GCCAAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUUUUC	24296
2809	UUGAAUUU G GCUGGAG	5921	CUUCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUUUUC	24297
2813	AAUUGGCU G GAAGGCCU	5922	AGGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAAUU	24298

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2814	AUUGGCTG G AAGGCCUG	5923	CAGGCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCAAU	24299
2817	GGCUGGA G GCCUGGG	5924	CCCAGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGCC	24300
2822	GAAGCCU G GGGAAAG	5925	UCUUUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCCUUC	24301
2823	AAGGCCUG G GGAAGAG	5926	UCUUUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGCCUU	24302
2824	AGGCCUGG G GAAAGAGU	5927	ACUUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGGCCU	24303
2825	GGCCUGG G AAAGAGUA	5928	UACUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCAGGCC	24304
2829	UGGGGAA G AGUAUUU	5929	AAAUACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCCCA	24305
2848	UUGCACCA G AACUGCC	5930	GGCGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUGCAA	24306
2871	ACCUUGU G GUGAUGG	5931	CCAUAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAAGGU	24307
2875	UUGUGGU G AUGGUCCG	5932	CGGACCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAAA	24308
2878	UGGUUGAU G GUCCGGAG	5933	CUCCGGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAACCA	24309
2883	GAUGGUCC G GAGACCA	5934	UUGGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAACCA	24310
2884	AUGGUCCG G AGACCAAG	5935	CUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACCAU	24311
2886	GUCCGGA G ACCAAGGA	5936	UCUUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGGACC	24312
2892	GAGACCA G GAUUGUCC	5937	GGACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUUCU	24313
2893	AGACCAAG G AAUGUCCG	5938	CGGACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGUCU	24314
2901	GAUGUCC G ACUCAGAA	5939	UUCUGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACAUU	24315
2907	CCGACUCA G AAUGGCGC	5940	GGCGAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAGUCCG	24316
2918	UCGGGCU G GAUAGCU	5941	AGCUAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAGCGA	24317
2919	CGGCUUG G AAUAGCU	5942	AAGCAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCGG	24318
2929	AUAGCUA G AAGUGGAG	5943	CUCCAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAGCUU	24319
2934	UUAAGAUG G GAGGAUUU	5944	AAAUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUUCUA	24320
2935	UAGAAGUG G AGGAUUU	5945	AAAUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUUCU	24321
2937	GAAGUGGA G GAUUUUGG	5946	CCAAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAUUC	24322
2938	AAGUGGAG G AUUUUGGA	5947	UCCAAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAUU	24323
2944	AGGAUUUG G AUUUUGGU	5948	ACCAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUUCU	24324
2945	GAUUUUUG G AUUUUGGU	5949	GACCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUUC	24325
2950	UUGGAUUU G GUCUCACC	5950	GGAGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUCCAA	24326
2966	CAGCACUC G GAUUGUCC	5951	GGACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUUGCU	24327
2967	AGCACUC G AUUGUCCU	5952	AGGAACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGUGCU	24328
2976	AUGUUCU G AAGGUCAG	5953	CUGACCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAACU	24329
2979	UUCUGAA G GUCAGAGA	5954	UUCUGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAGGAA	24330
2984	GAAGGUCA G AGAGAGCA	5955	UGUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACCUUC	24331
2986	AGGUCAGA G AGAGCAC	5956	GUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGACCU	24332
2988	GUCAGAGA G AGCAACAC	5957	GUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUGAC	24333
3001	ACACAAU G AAUGUGAC	5958	GUCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUGU	24334
3007	CUGAAUGU G ACUCGAG	5959	CUUCGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUUCAG	24335
3012	UGUGACUC G AAGAUAU	5960	AUGAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUCACA	24336
3015	GACUCGAA G AUCAUUGG	5961	CCAUAUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGAGUC	24337
3022	AGAUAUU G GAACGGCU	5962	AGCGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGAUU	24338

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3023	GAUCAUUG G AACGGCUG	5963	CHAGCCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUGAUC	24339
3027	AUUGGAAC G GCUCUCAA	5964	UUGACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCAAU	24340
3036	GCUGUCAA G AACAAUUC	5965	AAGUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACAGC	24341
3045	AACAACUU G GCGAUCCA	5966	UGGAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUUGUU	24342
3048	AACUUGGC G AUCCACAG	5967	CUGUGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAAUUG	24343
3058	UCCACAGU G ACCUGUCC	5968	GGACAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUGGA	24344
3071	GUCCUAUU G GAUUGAAA	5969	UUUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAGGAC	24345
3072	UCCUAUUG G AUTGAAAG	5970	UUUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUAGGA	24346
3076	AUUGGAUU G AAAGCAGG	5971	CCUGCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCAAU	24347
3083	UGAAAGCA G GCUCAUUG	5972	CAUUGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUUCA	24348
3091	GGCUCAAU G AUACGUGG	5973	CCACGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAGCC	24349
3098	UGAUACGU G GAAGCUUG	5974	CAAGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAUCA	24350
3099	GAUACGUG G AAGCUUGA	5975	UCAAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUUUC	24351
3106	GGAGCUU G AAAGGCA	5976	UGCCCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUUCC	24352
3110	GCUGAAA G GCGUUC	5977	GAACUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUAACGC	24353
3111	CUUGAAAG G GCAUUCU	5978	AGAACUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCNAG	24354
3120	GCAGUUCU G GUUGAAGU	5979	ACUUCACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACUCC	24355
3121	CAGUUCUG G GUGAAGUC	5980	GACUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAACUG	24356
3124	UUUCUGGU G AAGUCAAA	5981	UUUGACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCAGAA	24357
3143	AUGUACGU G GCUAGAGA	5982	UUUCAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAACU	24358
3148	CGUGGCCU G AGACGCAU	5983	AUGCGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCCACG	24359
3150	UGGCCUGA G ACGCAUAC	5984	GUAGCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGGCCA	24360
3164	UACCUUGU G GGGCGAUG	5985	CAUCGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAGGUA	24361
3165	ACCUUGUG G GCGGAUGG	5986	CCAUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAAGGU	24362
3166	CCUUGUGG G GCGAUGGA	5987	UCCAUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAAGG	24363
3169	UGUGGGGC G AUGGAUUC	5988	GAUUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCCCACA	24364
3172	GGGGCGAU G GAUCCUUU	5989	AAGGAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGCCCC	24365
3173	GCGCGAUG G AAUCCUUG	5990	CAAGGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGAUUC	24366
3181	GAUCCUUU G AGAGUGAC	5991	GUACACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGAUUC	24367
3183	AUCCUUGA G AGUGACUU	5992	AAGUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGGAU	24368
3187	UUGAGAGU G ACUUGAUA	5993	UAUCNAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCNA	24369
3192	AGUGACUU G AUAUAUCC	5994	GGUAUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUCACU	24370
3210	GUACACCU G GCGGACCC	5995	GGUCCCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUGAC	24371
3213	ACACUGGC G GACCCAGC	5996	CGUGUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GOCAGUGU	24372
3214	CACUGGGG G GACCACGA	5997	UUGUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAGUG	24373
3215	ACUGGGGG G ACCACGAA	5998	UUCUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCAGU	24374
3221	GGGACCAC G AAGCAUUC	5999	GAUUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUCC	24375
3236	UCACAUC G GAGACCUU	6000	CAGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUGUGA	24376
3237	CACAAUCG G AGACCUUG	6001	CCAGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUUGUG	24377
3239	CAAUCCGA G ACCUGGUU	6002	ACCCAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAUUG	24378

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3244	GGAGACCU G GGUACAAG	6003	CUUGUACC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUUCUC	24379
3245	GAGACCU G GUACAAGA	6004	UCUUGUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUUCUC	24380
3252	GGGUACAA G ACACAAGA	6005	UUUUGUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUACCC	24381
3264	CNAACCA G GGCCCAUG	6006	CAUGGGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUUUG	24382
3265	AAAACCA G GGCCCAUG	6007	CNAUGGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUUU	24383
3272	GGGCCAU G GACGAAG	6008	CUUGUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGGCC	24384
3273	GGCCCAU G GACGAAG	6009	CCUUGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGGCC	24385
3274	GGCCCAUG G ACGAAGC	6010	GCUUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGGGC	24386
3277	CAUGGAC G AAGGCCG	6011	CCGACCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCCAUG	24387
3280	GGGACGAA G GCCGGUA	6012	UACCGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUCC	24388
3284	CGAAGCC G GGUAGAGA	6013	UCUCUACC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCCUUCG	24389
3285	GAAGGCC G GUAGAGU	6014	AUCUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCUUC	24390
3289	GGCGGUA G GAUUGAC	6015	GUCAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACCGGC	24391
3291	CGGGUA G AUUGACU	6016	AAGUAAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUACCG	24392
3295	UAGAGAU G ACUUCGU	6017	AUCGAAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUCUA	24393
3301	UUGACUUC G AUUACUG	6018	GCAGAAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAGUCAA	24394
3313	ACUGCCA G GAACUACG	6019	CGUAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCAGU	24395
3314	CUGCCAG G AACUACGG	6020	CCGAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGGCAG	24396
3321	GAAACUAC G GUCACCU	6021	AGGUGAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGUUC	24397
3330	GUCACCU G AGUAGAG	6022	CUUCACU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUGAC	24398
3334	CCUAGU G AGAGUCC	6023	GCAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGAGG	24399
3336	CUGAGUA G AGCUGCG	6024	CCGAGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACUCAG	24400
3343	AGAGUCC G GACACGU	6025	ACGUGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGCUCU	24401
3344	GAGUCC G ACACCGU	6026	CACGUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCAGCUC	24402
3352	GACACGU G GACUCC	6027	GGCAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUUC	24403
3353	ACACCGU G ACCUGCCA	6028	UGGACAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGGUGU	24404
3376	CCACACA G AGAGCGA	6029	UCCGUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGUGG	24405
3378	ACCACAGA G AGCGGAA	6030	UUUCCGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGUGGU	24406
3382	CAGAGAG G GAAAGUUG	6031	CAACUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCUCUG	24407
3383	AGAGAGC G AAAGUUGA	6032	UCAACUU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUCUCU	24408
3390	GAAAGUU G AUAACAGA	6033	UCUGUUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUCC	24409
3397	UGAUAACA G AUUGUGC	6034	GCACCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAUCA	24410
3401	AACAGAU G GUGUGCA	6035	UGCAGCAG GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUGUU	24411
3410	GUGUGCA G GAGUGCA	6036	UGCAGCUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAGCAC	24412
3411	UGCUGCA G AGUGCAC	6037	GUCAGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCAGCA	24413
3445	ACCAACU G ACAGCGC	6038	CGCUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGGU	24414
3451	CUGACAGC G GCUUGUG	6039	CCACAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUGUCAG	24415
3458	CGGUGUU G GUAUGUA	6040	UACCAUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGCCG	24416
3463	GUUGUAU G GUAUGGAG	6041	CUCCAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAAC	24417
3468	UAUGUAU G GAGUACAG	6042	CUGAUCUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAUA	24418

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3469	AUGGUAUG G AGAUCHGA	6043	UCUGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACCAU	24419
3471	GGUAUGGA G AUCAGACC	6044	GGUGUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUACC	24420
3476	GGAGUAUA G ACCACAGA	6045	UCUGUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCUCC	24421
3483	AGACCAGA G AGACAUGA	6046	UCAUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGUUU	24422
3485	ACCACAGA G ACAUGAUG	6047	CAUCAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGUGGU	24423
3490	AGAGACAU G AUGAAAG	6048	CUUUAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUCUCU	24424
3493	GACAUGAU G AAAAGACC	6049	GGUCUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUGUC	24425
3498	GAUGAAAA G ACCUCUGU	6050	ACGAGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUCAUC	24426
3519	UCACAAGU G AAUGCUUA	6051	UAAGCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGUGA	24427
3535	AUAUAGCU G AUAUGAUU	6052	AAUCAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUUAU	24428
3540	GCUGAUUU G AUAGACCC	6053	GGUGCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUACAGC	24429
3544	AUAUGAUU G ACCCUUUU	6054	AAAAGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAUAU	24430
3558	UUUCAGUU G GCCCUUUC	6055	AGAAGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGAAA	24431
3559	UUCAGUUG G GCCUUCUG	6056	CAGAAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACUGAA	24432
3567	GGCCUUUC G GUCUGUUU	6057	AAACACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGGCC	24433
3579	GUGUUUUU G GCCACCCA	6058	UGGUGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAACAC	24434
3588	GCCACCCA G GAGGUCCU	6059	AGGACCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUGGCC	24435
3589	CCACCAG G AGGUCCUU	6060	AAAGGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGGUGG	24436
3591	ACCACAGA G GUCCUUCG	6061	CGAAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGGU	24437
3603	CUUCGCAA G AGGUGGAC	6062	GUCCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCGAAG	24438
3605	UCGCAAGA G GUGGACAG	6063	CUGUCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGCGA	24439
3608	CAAGAGGU G GACAGCCA	6064	UGGCUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUUG	24440
3609	AGAGGUG G ACAGCCAA	6065	UUGGCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCUCUU	24441
3618	ACAGCCAA G AUCAGCAU	6066	AUGCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGUCUU	24442
3639	GUUAUACU G AUUGUCUU	6067	AGAGCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAUAGC	24443
3657	CUAGUCCU G GUGUUUGG	6068	CCAAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGACUAG	24444
3664	UGGUGUUU G GGGGCAUU	6069	AAUGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACACCA	24445
3665	GGUGUUUG G GGGCAUUA	6070	UAAUGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACACC	24446
3666	GUGUUUGG G GGC AUUAC	6071	GUAAUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAACAC	24447
3667	UGUUUGGG G GCAUUACU	6072	AGUAUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCAAACA	24448
3682	CUUACACU G AUGUGUUA	6073	UAACACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUAAG	24449
3705	GUCAUCUU G GUGGGGGC	6074	GCCCCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUGAC	24450
3708	AUCUUGGU G GGGGACGC	6075	GCUGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAAGAU	24451
3709	UCUUGGUU G GGGCAGCU	6076	AGCUGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAAGA	24452
3710	CUUUGGUG G GGCAGCUCU	6077	AAGCUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACCAAG	24453
3711	UUGGUGGG G GCAGCUUU	6078	AAAGCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCACCAA	24454
3724	CUUUCGCA G AAUCUAAU	6079	AUAUAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGAAG	24455
3735	UCUUAUUC G GGAGGAGA	6080	UCUCUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAUUAAG	24456
3736	CUAAUUCG G GAGGAGAC	6081	GUCUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAAUUAAG	24457
3737	UAAUUCGG G AGGAGACG	6082	CGUCUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAAUUA	24458

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3739	AUUCGGGA G GAGACGUG	6083	CACGUCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGGAU	24459
3740	UUCGGGAG G AGACGUGG	6084	CCACGUCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCCGAA	24460
3742	CGGGAGGA G ACGUGGUA	6085	UACCAGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCCCG	24461
3747	GGAGACGU G GUACACUU	6086	AAGUGUAC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUCUCC	24462
3756	GUACACUU G GCGUCUAU	6087	AUGAGGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGUGUAC	24463
3765	GCGUCUAU G GCGACCUU	6088	AAGUGGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAGCGC	24464
3768	CUCAUGGC G ACCUUCAA	6089	UUGAAGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCAUAG	24465
3777	ACCUUCAA G AUACAACC	6090	GGUUGUAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGAAGU	24466
3795	GUGUUAU G GUGGCAUC	6091	GAUGCCAC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAAACAC	24467
3798	UUUAUGU G GCAUCGUU	6092	AACGAUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAUAA	24468
3816	CUCAAGC G AGAUGGAC	6093	GUCCAUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUUUGAG	24469
3818	CAAGCGA G AUGGACCA	6094	UGGUCCAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCGCUUG	24470
3821	AGCGAGU G GACCAACC	6095	GGUUGUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUCGU	24471
3822	GCGAGAU G ACCAACCA	6096	UGUUGGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCUCG	24472
3831	ACCAACCA G GAGAACAU	6097	AUGUUCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUUGU	24473
3832	CCAACAG G AGAACAUU	6098	AAUGUUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGUUG	24474
3834	AACACGA G AACAUUUU	6099	AAAUUUU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUGGU	24475
3846	AUUUUGU G AUGUUGC	6100	GCCAACU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAACAA	24476
3852	UUGAUGU G GCGGCGU	6101	ACAGCCG GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUACAA	24477
3855	AUGUUGC G GCUGUUUU	6102	AAAACAG GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCAACAU	24478
3873	UUUCAAU G GCUUAUCA	6103	UGUAAGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUUGAA	24479
3883	CUUAUCAC G AUGCCGCG	6104	GCGGCAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGAUAG	24480
3905	UCUGUCU G GGAGUCC	6105	GGAUUCC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAGCAG	24481
3906	UGUCUCU G GAGAUCC	6106	AGGAUUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGAGCA	24482
3907	UGUCUCU G AGAUCCU	6107	AGGAUUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGAG	24483
3909	CUUGGGA G AUCCGUG	6108	UCAGGAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGAG	24484
3916	AGAUCCU G AUGUGUUG	6109	CAACACU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGGAUC	24485
3924	GAUGUUU G AAUUCACU	6110	AGUAAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACACAU	24486
3933	AAUUCACU G GCGUAGC	6111	GUUACGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGAAU	24487
3936	UCACUGGC G GUAGCUUG	6112	CAAGUAC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCAGUA	24488
3944	GUAGCUU G GAUGAUAC	6113	GUUUAUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCUAC	24489
3945	GUAGCUU G AUUAUACU	6114	AGUAUAC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCUAC	24490
3948	GCUUGAU G AUACUGAG	6115	CUCAUAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAGC	24491
3954	AUGAUACU G AGAGCCAU	6116	AUGGCUU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUAUAC	24492
3956	GAUACUGA G AGCCAUAA	6117	UUUAGGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UACGUAC	24493
3975	UUCACAC G ACAUCAA	6118	UUUAGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUGUGAA	24494
3987	UCAACAGU G GUUGUUC	6119	GGAAAC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUUGA	24495
4018	UAACACCC G GGCUGAGA	6120	UCUCAGCC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGUGUA	24496
4019	AACACCG G GCUAGAU	6121	AUCUAGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGUGU	24497
4023	CCCGGCU G AGAUGCU	6122	AAGCAUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCCGG	24498

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4025	CGGGCUGA G AUGCUUGA	6123	UCAAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGCCCG	24499
4032	AGAUGCUG G AAUCUGGA	6124	UCCAGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAUCU	24500
4038	UUGAUCU G GAUGUGUA	6125	UACACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUUCA	24501
4039	UGAUCUG G AUGUGUAC	6126	GUACACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAUUCA	24502
4049	UGUGUACA G GAUACUGC	6127	GCAGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUACACA	24503
4050	GUGUACAG G AUACUGCU	6128	AGCAGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUACAC	24504
4062	CUGCUGU G AUGGUCGG	6129	CCGACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGAG	24505
4065	CUGUGAU G GUCGGAU	6130	AUCCGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACACG	24506
4069	UGAUGUC G GAAUAGGC	6131	GCUAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACCAUCA	24507
4070	GAUGGCG G AAUAGGCA	6132	UGCUAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACCAUC	24508
4075	UCGGAUA G GCAGCUUG	6133	CAAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCCGA	24509
4083	GGCAGUU G AUCAGGA	6134	UCCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUGCC	24510
4088	CUUGAUCA G GGAGAGA	6135	UCUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCAAG	24511
4089	UUGAUCAG G GAGAGAG	6136	CUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAUCAA	24512
4090	UGAUCAG G AGNAGAG	6137	CCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGAUCA	24513
4092	AUCAGGA G AAGAGGAG	6138	CUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGAU	24514
4095	AGGAGAA G AGGAGUC	6139	GCACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCCU	24515
4097	GGAGAGA G GAGUGCAG	6140	CUGCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCTUCUC	24516
4098	GAGAGAG G AGUGCAGC	6141	GCUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUCU	24517
4116	GCAAAA G AAGGAGC	6142	GUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUG	24518
4120	AAAGAAA G GAGCAAGU	6143	ACUUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUU	24519
4121	AAAGAA G AGCAGUC	6144	GACUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUUU	24520
4140	CUAUGCU G GCUCUAGC	6145	GCUAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAUAG	24521
4156	CCUACACA G GACUUUUC	6146	GAAGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGAGG	24522
4157	CUCAACAG G ACUUUUA	6147	UGAAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUUGAG	24523
4173	AACCCAU G AUCCUUGC	6148	GCAGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGGGU	24524
4186	UUGCUGU G GACUGAUU	6149	AUACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGCAA	24525
4187	UGCUGUG G ACUGAUUG	6150	CAUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCAGCA	24526
4191	GCUGACU G AUUGCAUG	6151	CAUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCAGC	24527
4201	UUGCAUGU G AUCCCAAC	6152	GUUGGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUGCAA	24528
4219	GUAAAGC G GAUGGCC	6153	GGGCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUUAC	24529
4220	UAAAGCG G AUGGCCG	6154	CGGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGUUUA	24530
4223	ACGCGGAU G GCCCGCAA	6155	UUGCGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCGCU	24531
4234	CCGACAU G AAGUGAUG	6156	CAUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGCGG	24532
4239	ACUGAGU G AUGACAGC	6157	GCUGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCAGU	24533
4242	GAAGUGAU G ACAGCUGU	6158	ACAGCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACUUC	24534
4252	CAGCUGUC G GCCUAUG	6159	CAUATAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACAGCUG	24535
4273	CCAUGUC G GAGGCGUG	6160	CAGCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACGADGG	24536
4274	CAUCGUC G AGGCGUGG	6161	CCAGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACGAUG	24537
4276	UCGUGGA G GGCUGGCA	6162	UGCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGACGA	24538

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4277	CGUCGAG G GCUGGAG	6163	CUGCCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCGACG	24539
4281	GGAGGGCU G GCAGAGCU	6164	AGCUCUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCUCC	24540
4285	GGCUGGCA G AGCUAGAC	6165	GUCAAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCAGCC	24541
4291	CAGAGCUU G ACAUUGAC	6166	GUCAUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCUUG	24542
4297	UUGACAUU G ACUCCAUG	6167	CAUGGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGUCAA	24543
4305	GACUCCAU G GCCAUUCC	6168	GGAAUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGAGUC	24544
4317	AUUCCAAU G ACUAUCGC	6169	GCGAUAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGAAU	24545
4326	ACUAUCGC G GGGUCUAU	6170	AUGAGCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGAUAGU	24546
4327	CUAUCGCG G GGCUCAUG	6171	CAUGAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGAUAG	24547
4328	UAUCGCGG G GCUCAUGU	6172	ACAUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCGCAUA	24548
4350	GCUUCUGU G AUUCUGG	6173	CCAGAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGAAAGC	24549
4357	UGAUUUCU G GGAUAUCA	6174	UGAUUUCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAAAUCA	24550
4358	GAUUCUG G GAAUCAA	6175	UUGAUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGAAUUC	24551
4359	AUUCUGG G AAUUCAC	6176	GUUGAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGAAU	24552
4369	AAUCAACA G AUUUGUG	6177	CCACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGAU	24553
4376	AGAUUGU G GAUUGAGA	6178	UCUCAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAUUCU	24554
4377	GAUUGUG G AUUGAGAG	6179	CUUCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAAUUC	24555
4381	UGUGGAU G AGAGAACG	6180	CGUUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCACA	24556
4383	UGAUUGA G AGAACGGC	6181	GCCGUTUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUCCA	24557
4385	GAUUGAGA G AACGGCGG	6182	CCGCCGUT GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCAUUC	24558
4389	GAGAGAAC G GCGACAU	6183	AUUCGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUCUCUC	24559
4392	AGAACGGC G GACAUUUC	6184	GAUAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCGUUCU	24560
4393	GAACGGCG G ACAUUUCC	6185	GGAAUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGCGUUC	24561
4403	CAUUUCCU G GGAAGUG	6186	CACUUUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAAUUG	24562
4404	AUUUCCUG G GAAAGUGA	6187	UCACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGAAAU	24563
4405	UUUCCUGG G AAAGUGAU	6188	AUCACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGAAA	24564
4411	GGAAAGU G AUGCAGAA	6189	UUCUGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUUCC	24565
4417	GUAGAUGA G AAUUAACA	6190	UGAAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAUCC	24566
4426	AAAUACA G GCUAGAGC	6191	GCUCGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUAUUU	24567
4431	ACAGGCUC G AGCGAAG	6192	CUUUCGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGCCUGU	24568
4435	GCUCGAGC G AAAGAGUU	6193	AACUCUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCGAGC	24569
4439	GAGCGAAA G AGUUGAUG	6194	CAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCGUC	24570
4444	AAAGAGUU G AUGUGCGG	6195	CCGCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACUUUU	24571
4451	UGAUGUGC G GCUUGAUG	6196	CAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCACAUCA	24572
4456	UGCAGCUU G AUGAUGAU	6197	AUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCGCGCA	24573
4459	GGCUUGAU G AUGAUGGA	6198	UCCAUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAAGCC	24574
4462	UUGAUGAU G AUGGAAC	6199	GUUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAUCA	24575
4465	AUGAUGAU G GAACUUC	6200	GAAGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAUCA	24576
4466	UGAUGAU G AACUUC	6201	GGAAUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCAUCA	24577
4482	CAGCUCAU G AAUGAUCC	6202	GGAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAGCUG	24578

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4486	UCAUGAAU G AUCCAGGA	6203	UCCUGGAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUUCAUGA	24579
4492	AUGAUCCA G GAGCACC	6204	AGGUGUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UGGAUCAU	24580
4493	UGAUCCAG G AGCACC	6205	AAGUGUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CUGGAUCA	24581
4502	AGCACCUG G GAGAUAU	6206	AUAUCUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AAGGUGCU	24582
4503	GCACCUG G AGAUUUG	6207	CAUAUCUU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAAGGUGC	24583
4506	CCUUGAA G AUUGGAU	6208	AUCCAUAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUCCAAGG	24584
4511	GAGAUAU G GAUGCUCA	6209	UGAGCAUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUUCUUC	24585
4512	AAGAUUG G AUGCUCAG	6210	CUGAGCAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAUAUCUU	24586
4520	GAUGCUCA G AAUGGUCU	6211	AGACCAUU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UGAGCAUC	24587
4524	CUAGAAU G GUCUGUCU	6212	AGACAGAC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUUCUGAG	24588
4536	UGUCUCGC G AUUAGUGC	6213	GCACUAUU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG GCGAGACA	24589
4556	CACCCCU G GCAUUCU	6214	AGAUGCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AGGGGGUG	24590
4557	ACCCCCUG G GCAUUCU	6215	AGAUGCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAGGGGGU	24591
4579	CAGUUGU G GAUUGG	6216	CCAAAUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AACUACUG	24592
4580	AGUAGUUG G AUUUGGA	6217	UCCAAAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAACUACU	24593
4586	UGAUUUU G GAUAACUC	6218	GAGUUAUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AAAAUCCA	24594
4587	GGAUUUG G AUUACUCU	6219	AGAUUAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAAAAUCC	24595
4608	UACACAA G AGAGGAG	6220	CCUCCUCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UUUGUGUA	24596
4610	CACAAAG G AGGAGCG	6221	CGCCUCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCUCUUG	24597
4612	CAAGAGA G GAGGCGUG	6222	CACGCCUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCUCUUG	24598
4613	AAAGAGA G AGGCGUGU	6223	ACACGCCUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCUCUUCU	24599
4615	AGAGAGA G GCGUGUG	6224	CAACAGC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCUCUUCU	24600
4625	CGUGUUGU G GACACUC	6225	GAGUGCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG ACACACG	24601
4626	GUGUGUGU G GACACUC	6226	GGAGUUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CACACAC	24602
4627	UGUGUGG G ACACUCC	6227	GGAGUGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCACACA	24603
4644	UCACCAA G GAGUACAA	6228	UUGUACUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UUUGUGUA	24604
4645	CACCAAG G AGUACAAA	6229	UUUGUACU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CUUUGUG	24605
4656	UACAAAA G GGGGACAC	6230	GUGUCCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UUUUUGUA	24606
4657	ACAAAAAG G GGGACACG	6231	CGUGUCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CUUUUGU	24607
4658	CAAAAAG G GGCACCGA	6232	UCGUGUCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCUUUUUG	24608
4659	AAAAAGG G GACACGAC	6233	GUCGUGUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCCUUUUU	24609
4660	AAAAGGG G ACACGACC	6234	GGUGUGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCCUUUUU	24610
4665	GGGACAC G ACCACCGG	6235	CCGUGGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG GUGUCCCC	24611
4672	CGACCAC G GCGUCUAC	6236	GUAGAGC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG GUGUGUCG	24612
4682	GCUCUACA G GAUCAUGA	6237	UCAUGAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UGUAGACG	24613
4683	GUCUACAG G AUCAUGAC	6238	GUGUAGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CUGUAGAC	24614
4689	AGGAUCAU G ACUCGUGG	6239	CCACAGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUGAUCCU	24615
4696	UGACUCGU G GCGUCUC	6240	GAGCAGC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG ACGAGUCA	24616
4697	GACUCUGU G GCGUCUC	6241	CGAGCAG GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CACGAGUC	24617
4705	GGCUGUC G GCAUUAU	6242	AUAUCUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG GAGCAGCC	24618

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4720	AUCAAGCA G GAGCGGGC	6243	GCCCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUGAU	24619
4721	UCAAGCAG G AGCGGGCG	6244	GCCCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCUUGA	24620
4725	GCAGGAGC G GCGUGAU	6245	AUCACGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCUUGC	24621
4726	CAGGAGCG G GCGUGAU	6246	CAUCACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUCCUG	24622
4731	GCGGCGU G AUGUUGA	6247	UCAACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCCGCG	24623
4734	GCGUGAU G GUUGAAG	6248	CCUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGGCC	24624
4738	UGAUGGUU G AAGGUGU	6249	AACACCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAUCA	24625
4741	UGGUUGAA G GUGUUUUC	6250	GAACACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACCA	24626
4760	CACCCUUU G GCAUACAA	6251	UUUAUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGGUG	24627
4774	CACACAAA G GAGCCGCU	6252	AGCGGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGUUG	24628
4775	AACAAAAG G AGCCGCUU	6253	AAGCGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGUU	24629
4785	GCGGCUU G AGAGCGG	6254	CGGCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCGGC	24630
4788	GUUUGAU G AGCGGAGA	6255	UCUCCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCRAAGC	24631
4792	UGAUGAGC G GAGAGGGC	6256	GCCUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCAUCA	24632
4793	GAUGAGCG G AGAGGGCC	6257	GGCCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUCAUC	24633
4795	UGAGCGGA G AGGGCCGC	6258	GCGGCCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGCUCA	24634
4797	AGCGGAGA G GCGCGCCU	6259	AGCGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGCUU	24635
4798	GCGGAGAG G GCGCCGUG	6260	CAGCGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCCGC	24636
4806	GCGCGCCU G GACCCAU	6261	UAUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCGGCC	24637
4807	GCGGCCUG G ACCCAUAC	6262	GUAGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCGGCC	24638
4817	CCCAUACU G GGGCAGUG	6263	CACUGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAUGGG	24639
4818	CCAUAUCU G GGCAGUGU	6264	ACACUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUAUGG	24640
4819	CAUACUGG G GCAGUGUC	6265	GACACUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUAUG	24641
4830	AGUGUCAA G GAGGAUCG	6266	CGAUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACACU	24642
4831	GUGUCAAG G AGGAUCGA	6267	UCGAUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGACAC	24643
4833	GUCAAGGA G GAUCGACU	6268	AGUGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUGAC	24644
4834	UCAAGGAG G AUCGACUU	6269	AAGUCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUUGA	24645
4838	GGAGGAUC G ACUUUGUU	6270	AACRAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCCUCC	24646
4849	UUUGUUAC G GAGBACCC	6271	GGGUCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAAACAA	24647
4850	UUUGUACG G AGGACCCU	6272	AGGUCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUAACAA	24648
4852	GUUACGGA G GACCCUGG	6273	CCAGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUUAC	24649
4853	UUACGGAG G ACCCUGGA	6274	UCCAGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGUAA	24650
4859	AGGACCCU G GAUAUUGC	6275	GCAAUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUCUCC	24651
4860	GGACCCUG G AAUAUUGA	6276	UGCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUUCC	24652
4877	GCACAAGU G GAACGGGC	6277	GCCGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGUGC	24653
4878	CACAAGUG G AACGGGCA	6278	UGCCGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUUGUG	24654
4882	AGUGGAAC G GGCAGGAU	6279	AUCCGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCACU	24655
4883	GUGGARCG G GCAGGAUG	6280	CAUCCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUUCAC	24656
4887	AACGGGCA G GAUGAGUU	6281	ACCUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCCUU	24657
4888	ACGGGCGG G AUGAGGUG	6282	CACCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCCCCU	24658

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4891	GGCAGGAAU G AGGUGCAG	6283	CUGCACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCUGCC	24659
4893	CAGGAUGA G GUGCAGAU	6284	AUCUGCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUAUCCUG	24660
4899	GAGGUGCA G AUGAUUGU	6285	ACAUAUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCACCUUC	24661
4902	GUGCAGAU G AUGUGUGU	6286	ACCACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUGCAC	24662
4908	AUGAUUGU G GUGBAACC	6287	GGUUCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAUACU	24663
4911	AUUGUGGU G GAACCUUG	6288	CCAGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCACAAU	24664
4912	UUGUGGUG G AACCUGGC	6289	GCCAGGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCACAA	24665
4918	UGGAACCU G GCAAGAAC	6290	GUUCUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUUCCA	24666
4923	CCUGGCAA G AACGUUAA	6291	UUAAGGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCCAGG	24667
4922	AACGUUA G AACGUCCA	6292	UGGACGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUAACGUU	24668
4941	AACGUCCA G ACBAACCC	6293	GGUUCGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACGUU	24669
4944	GUCCAGAC G AAACCAAG	6294	CCUGGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUGGAC	24670
4951	CGAAACCA G GGGUGUUC	6295	GAACACCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUUUCG	24671
4952	GAACACAG G GGUGUUA	6296	UGAACACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGUUUC	24672
4953	AAACCAAG G GUGUCAA	6297	UUGAACAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUGGUU	24673
4969	AAACACCU G AAGGAGAA	6298	UUCUCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUUUU	24674
4972	CACCUAAA G GAGAAUUC	6299	GAUUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAGGU	24675
4973	ACCUAGAG G AGAAUUCG	6300	CCAUUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCAGGU	24676
4975	CUGAAGGA G AAUUCGGG	6301	CCCAGUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUCAG	24677
4981	GAGAAUUC G GGGCCGUG	6302	CACGCCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUUUCUC	24678
4982	AGAAUUCG G GGCCGUGA	6303	UCACGGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAUUUUC	24679
4983	GAAAUUCG G GCCGUGAC	6304	GUCACGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCGAUUUC	24680
4989	GGGCGCGU G ACUUUGGA	6305	UCCAAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGGCCCC	24681
4995	GUGACUUU G GACUUCCC	6306	GGGAAGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAGUCAC	24682
4996	UGACUUUG G ACUUCCCC	6307	GGGAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAGUCA	24683
5008	UCCCCACU G GAACAUCA	6308	UGAUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGGGGA	24684
5009	CCCCACUG G AACAUACG	6309	CUGAUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUGGGG	24685
5017	GAACAUCA G GCUCACCA	6310	UGGUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAUUUUC	24686
5031	CCAAUAGU G GACAAAAA	6311	UUUUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUAUUG	24687
5032	CAUAUAGU G ACAAAAC	6312	GUUUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUAUUG	24688
5041	ACAAAAC G GUGAUGUG	6313	CACAUCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUUUU	24689
5044	AAAAAGGU G AUGUAUU	6314	AAUACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCGUUUU	24690
5049	GGUGAUGU G AUUGGGCU	6315	AGCCCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCACC	24691
5053	AUGUAUUU G GGUUUUUA	6316	UAAAGGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUACAAU	24692
5054	UGUGAUGU G GCUUUAUG	6317	CAUAAAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUACACA	24693
5062	GGCUUUUU G GCAUUGGA	6318	UCCAUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAAAGCC	24694
5068	AUGGCAUU G GAGUCAUA	6319	UAUACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGCCAU	24695
5069	UGGCAUUG G AGUCAUUA	6320	UUAUGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUUGCCA	24696
5086	UGCCCAAC G GCUCAUAC	6321	GUUAUGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUGGGCA	24697
5103	AUAAGGCG G AUAGUGCA	6322	UGCACUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCUUUUU	24698

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5112	AUAGUGCA G GGUGAAG	6323	CUUUCACC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCACUAU	24699
5113	UAGUGCAG G GUGAAAGG	6324	CCUUUCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGCACUA	24700
5116	UGCAGGU G AAAGGAUG	6325	CAUCCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACCUGCA	24701
5120	GGUGAAA G GAUGGAUG	6326	CAUCCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUUACACC	24702
5121	GGUGAAG G AUGGAUGA	6327	UCAUCCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUACACC	24703
5124	GAAGGAU G GAUGAGCC	6328	GGCUAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCCUUUC	24704
5125	AAAGGAU G AUGAGCCA	6329	UGGCUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUCCUUU	24705
5128	GGAUGRAU G AGCCAAUC	6330	GAUUGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCCAUC	24706
5143	UCCAGCC G GAUUCGAA	6331	UUCGAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGCUGGGA	24707
5144	CCAGCCG G AUUCGAAC	6332	GUUCGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGCUGGG	24708
5149	CCGGAUUC G AACCUAG	6333	CUCAGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAAUCCGG	24709
5155	UCGAACCU G AGAUGCUG	6334	CAGCAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUUCGA	24710
5157	GAACUGA G AUGCUGAG	6335	CUCAGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGGUUC	24711
5163	GAGAUGC G AGGAAAA	6336	UUUUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCAUCUC	24712
5165	GAUGCUGA G GAAAAAC	6337	GUUUUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGCAUC	24713
5166	AUGCUGAG G AAAAACA	6338	UGUUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCAGCAU	24714
5175	AAAAACA G AUCACUGU	6339	ACAGUGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUUUUU	24715
5187	ACUGUACU G GAUCUCCA	6340	UGGAGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUACAGU	24716
5188	CUGUACUG G AUCUCCAU	6341	AUGGAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGUACAG	24717
5200	UCCAUCC G GCGCCGU	6342	ACCGCGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGAUGGA	24718
5206	CGGCGCC G GUAAAAA	6343	UGUUUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCGGCCG	24719
5216	UAAAAA G GAGGAUUC	6344	GAAUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGUUUUA	24720
5217	AAAAAAG G AGGAUUCU	6345	AGAAUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUGUUUU	24721
5219	AACAAGGA G GAUUCUGC	6346	GCAGNAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCUUGUU	24722
5220	ACAAGGAG G AUUCUGCC	6347	GGCAGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCCUUGU	24723
5232	CUGCCACA G AUCAUCAA	6348	UUGAUGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUGGCAG	24724
5242	UCAUCAA G AGGCCAUA	6349	UAUGGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGUAUGA	24725
5244	AUCAAGA G GCCAUAAA	6350	UUUAUGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUUUGAU	24726
5255	CAUAAACA G AAGACUGA	6351	UCAGUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUUUUG	24727
5258	AAACAGAA G ACUGAGAA	6352	UUCUCAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUGUUU	24728
5262	AGAAGACU G AGAACAGC	6353	GCUGUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUCUUCU	24729
5264	AAGACUGA G AACAGCCG	6354	CGGCUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGUCUU	24730
5288	ACCAACA G GGUUGUG	6355	CCACAACC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGGUUGGU	24731
5289	CCACCAG G GUUGUGGC	6356	GCCACAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGGUUGG	24732
5295	AGGUUGU G GCUGCUGA	6357	UCAGCAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACAACCCU	24733
5302	UGGUCUGU G AGAUGGU	6358	AGCCAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCAGCCA	24734
5304	GCUGCUGA G AUGGCUGA	6359	UCAGCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGCAGC	24735
5307	GCUGAGAU G GCUGAAGC	6360	GCUCAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCUCAGC	24736
5311	AGAUGGU G AAGCAUUG	6361	CAGUGCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCCAUCU	24737
5319	GAAGCACU G AGAGGACU	6362	AGUCCUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUGCUUC	24738

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5321	AGCACUGA G AGGACUCC	6363	GCAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGUGCU	24739
5323	CACUGAGA G GACUGCCC	6364	GGGACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCAGUG	24740
5324	ACUGAGAG G ACUGCCCA	6365	UGGGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACAGU	24741
5336	GCCAUCC G GUACCAGA	6366	UGGUGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAUGGGC	24742
5343	CGGUACCA G ACAUCCGC	6367	GCUGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUACCG	24743
5360	AGUGCCCA G AGAACAU	6368	UAUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCACU	24744
5362	UGCCCCAG G AACAUAAU	6369	AUAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGGCA	24745
5371	AACAUAAU G GAAUUGAG	6370	CUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUAUGUU	24746
5372	ACAUAAUG G AAUUGAGA	6371	UCUCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUGU	24747
5377	AUGGAUU G AGAUUGUU	6372	AACAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUCU	24748
5379	GGAUUUGA G AUUGUUGA	6373	UCAACAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUAUC	24749
5386	AGAUUGUU G AUGUCAUG	6374	CAUGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAAUUCU	24750
5417	CACCCACA G GCUUGAUGU	6375	ACAACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGGUG	24751
5421	CACAGGCU G AUGUCUCC	6376	GGAGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCUUG	24752
5435	UCCUCACA G GUGGCCGA	6377	UCGGCACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGAGGA	24753
5436	CCUCACAG G GUGCCGAA	6378	UUCGGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUGAGG	24754
5442	AGGGUCCC G AACUACNA	6379	UUGUAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCACCCU	24755
5460	CUGUUCGU G AUGGAUGA	6380	UCAUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGAACAG	24756
5463	UUCGUGAU G GAUGAGGC	6381	GCUCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACAGAA	24757
5464	UCGUGAUG G AUGAGGCU	6382	AGCCUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCACGA	24758
5467	UGAUGAU G AGGUCU	6383	AUGAGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUCA	24759
5469	AUGGAUGA G GCUCAU	6384	AAUAGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCAU	24760
5482	AUUUCACC G ACCCAGCU	6385	AGCUGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUAU	24761
5504	UCGAGCNA G AGGUUACA	6386	UGUAACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCUGCA	24762
5506	CAGCAAGA G GUUACAU	6387	AAUGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGUCUG	24763
5523	UCCACAAA G GUCGAGCU	6388	AGCUCGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGGA	24764
5527	CAAAGUCC G AGCUAGGG	6389	CCCUAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACCUUUG	24765
5533	UCGAGCTA G GGGAGGGG	6390	CGCCUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCUCGA	24766
5534	CGAGCUAG G GGGGCGG	6391	CCGCCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGCUCG	24767
5535	GAGCUAGG G GAGGCGGC	6392	GCCGCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUAGCUC	24768
5536	AGCUAGGG G AGGCGCG	6393	CGCCGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGUAGCU	24769
5538	CUAGGGGA G GCGGCGGC	6394	GCCGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCUUAG	24770
5541	GGGGAGC G GCGGCAU	6395	AUTGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCTUCCC	24771
5544	GAGGCGC G GCAUAU	6396	AAUAUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGCCUC	24772
5556	AUAUACU G ACAGCCAC	6397	UGGCGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAAU	24773
5572	CCCCACCA G GCACUUA	6398	GUGAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUGGGG	24774
5581	GCACUUA G AUCCAUC	6399	GAUAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAGUGC	24775
5593	CAUCCCA G AGUCCAU	6400	AUUGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGAUG	24776
5614	CAAUUCC G ACUACAG	6401	CUGUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAUUG	24777
5622	GACUACA G ACUGAGAU	6402	AUCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAGUC	24778

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5626	UACAGACU G AGAUCCCG	6403	CGGGAUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUGUA	24779
5628	CAGACUGA G AUCCCGGA	6404	UCCGGGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGUCUG	24780
5634	GAGAUCC G GAUCGAGC	6405	GCUCGUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGGGAUCU	24781
5635	AGAUCCCG G AUGGAGCU	6406	AGUCGUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGGGAUCU	24782
5639	CCCGAUC G AGCUUGA	6407	UCCAAUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAUCCGGG	24783
5645	UCGAGCUU G GAACUCUG	6408	CAGAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAGCUCGA	24784
5646	CGAGCUGU G AACUCUGG	6409	CCAGAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAAGCUCG	24785
5653	GGAAUCU G GAUACGAA	6410	UUCGUAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGAGUUC	24786
5654	GAACUCUG G AUACGAU	6411	AUUCGUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGAGUUC	24787
5659	CUGGAUAC G AAUGGAUC	6412	GAUCCAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUAUCCAG	24788
5663	AUACGAU G GAUCACAG	6413	CUGUGAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUCGUAU	24789
5664	UACGAUUG G AUACACAG	6414	UCUGUGAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUUCGUA	24790
5671	GGUACACA G AUACACAC	6415	GGUGUAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUGAUUC	24791
5680	AAUACACC G GGAAGACG	6416	CGUCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGUGUAUU	24792
5681	AUACACCG G GAAGACGG	6417	CCGUCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGGUGUAU	24793
5682	UACACCGG G AAGACGGU	6418	ACCGUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCGGUGUA	24794
5685	ACCGGGAA G ACGGUUUG	6419	CAAAACGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUUCCCGU	24795
5688	GGGAAGAC G GUUUGGUU	6420	AACCAAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUCUCCG	24796
5693	GACGGUUU G GUUUGUGC	6421	GCACAAAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAACCCGUC	24797
5712	AGUGUCAA G UUGGGGAA	6422	UUCCCCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGACACU	24798
5715	GUCAAGAU G GGAUAUGA	6423	UCUAUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGUAGAC	24799
5716	UCAGAUG G GGAUAGAG	6424	CUCAUUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUCUUGA	24800
5717	CAAGAUGG G GAAUGAGA	6425	UCUCAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUCUUG	24801
5718	AGAUGGG G AAUGAGAU	6426	AUCUCAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUCUUU	24802
5722	UGGGGAU G AGAUTGCC	6427	GGCAAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUCCCCA	24803
5724	GGGAUGA G AUUGCCCU	6428	AGGCAAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAUUCUCC	24804
5749	AACGUGCU G GAAAGAAA	6429	UUUCUUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCACGUAU	24805
5750	ACGUGCUG G AAAGAAG	6430	CUUUCUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGCACGU	24806
5754	GCUGGAAA G AAAGUAGU	6431	ACUACUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUUCCAGC	24807
5769	GUCCAAUU G AACAGAAA	6432	UUUGUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUUGGAC	24808
5774	AUUGAACA G AAAGUCGU	6433	ACGACUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUCAAU	24809
5785	AGUCGUAC G AGACGGAG	6434	CUCGUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUACGACU	24810
5787	UCGUACGA G ACGGAGUA	6435	UACUCCGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCGUACGA	24811
5790	UACGAGAC G GAGUACCC	6436	GGGUACUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUCUCGUA	24812
5791	ACGAGAC G AGUACCCA	6437	UGGUAUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGUCUCGU	24813
5808	AAUUGUA G AACGAUGA	6438	UUAUUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUAUUAUU	24814
5812	GUAGAAG G AUGAUUGG	6439	CCAUAUUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUCUUAU	24815
5815	AGAAAGAU G AUUGGGAC	6440	GUCCCAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGUUCU	24816
5819	CGAUGAUU G GGACUUUG	6441	CAAAGUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUUAUCG	24817
5820	GAUGAUUG G GACUUUGU	6442	ACAAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAAUCAUC	24818

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5821	AUGAUGG G ACUUGUU	6443	AACAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUCAU	24819
5839	UCAACA G ACAUUCU	6444	AGAUAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUA	24820
5848	ACUAUCU G AAUUGGG	6445	CCCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUUGU	24821
5853	UCUGAAU G GGGGCUA	6446	UUAGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCAGA	24822
5854	CUGAAUG G GGGCUAC	6447	GUUAGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCAG	24823
5855	UGRAUUG G GGUUACU	6448	AGUUAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUCU	24824
5856	GAUAUGG G GCUAACU	6449	AAUUAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCAUUUC	24825
5868	AACUCAA G GCGAGCAG	6450	CUGUCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAGUU	24826
5871	UUCAGGC G AGCAGGGU	6451	ACCCUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUUGAA	24827
5876	GGCAGCA G GGUUAUG	6452	CAUAUACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUGGCC	24828
5877	GCGAGCAG G GUGAUGA	6453	UCAUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCUGCG	24829
5880	AGCAGGGU G AUGACAG	6454	CUGUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUGCU	24830
5884	GGUGAUU G ACAGCCGG	6455	CGGGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCACCC	24831
5891	UGACAGCC G GAAGAGUG	6456	CACUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUGUCA	24832
5892	GACAGCCG G AAGAGUGU	6457	ACACUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGUC	24833
5895	AGCCGGAA G AGUGUGAA	6458	UUCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGGCU	24834
5901	AAGAGUGU G AAACCAAC	6459	GUUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACUCUU	24835
5920	UCAUAACA G AAGAGAA	6460	UUCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAUGA	24836
5923	UAACAGAA G GAGAAGGG	6461	CCCUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGUUA	24837
5924	AACAGGA G AGAAGGGA	6462	UCCUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUGUU	24838
5926	CAGAAGGA G AAGGAGA	6463	UUCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUCUG	24839
5929	AAGAGAA G GGAGAGUG	6464	CACUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCCUU	24840
5930	AGAGAAG G GAGAGUGA	6465	UUCACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUCCU	24841
5931	GGAGAAG G AGAGUGAU	6466	AUCACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUCUC	24842
5933	AGAAAGGA G AGUGAUCC	6467	GGAUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCUUCU	24843
5937	GGAGAGU G AUCCUGGG	6468	CCCAGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCCC	24844
5943	UGAUCCU G GGAGAACC	6469	GGUUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUCAC	24845
5944	UGAUCCUG G GAGAACCA	6470	UGGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGAUCA	24846
5945	GAUCCUGG G AGAACCAU	6471	AUGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGAUC	24847
5947	UCCUGGGA G AACCAUCU	6472	AGAUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAGGA	24848
5961	UCUGCAGU G ACAGCAGC	6473	GCUGCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCAGA	24849
5982	GCGGCCCA G AGACUGG	6474	CCACGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCGGC	24850
5984	CGCCGAGA G ACUGGAC	6475	GUCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGGCG	24851
5989	AGAGACGU G GACGUAUC	6476	GUAUCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUCUCU	24852
5990	GAGACGU G ACUUAUCG	6477	CGAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUCUC	24853
5998	GACGUAUC G GUAGAAU	6478	AUUUCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUACGUC	24854
6002	UAUCGGUA G AAUCCGU	6479	ACGGAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACCGAUA	24855
6019	CGCAAGUU G GUGAUGAG	6480	CUCAUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUGCG	24856
6022	AGAUUGGU G AUGAGUAC	6481	GUACUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUCUU	24857
6025	UUGGUGAU G AGUACUGU	6482	ACAGUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACCAA	24858

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6037	ACUGUUAU G GGGGAC	6483	GUCCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AUAACAGU	24859
6038	CUGUUAUG G GGGGACA	6484	UGUGCCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CAUAAACAG	24860
6039	UGUUAUG G GGGCACAC	6485	GUUGCCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CCAUAAACA	24861
6040	GUUAUGG G GGCACACG	6486	CGUGGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CCCAUAAAC	24862
6041	UUAUGGG G GCACACGA	6487	UCUGUGG GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CCCAUAA	24863
6048	GGGACAC G AAUGAGA	6488	UUCUUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG GUGUGCC	24864
6052	ACACGAU G AAGACGAC	6489	GUGUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AUUCUGU	24865
6055	CGAAUGA G ACAGUCUG	6490	CGAGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UUCAUUCG	24866
6058	AUGAAGAC G ACUGAAC	6491	GUUGAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG GUCUUCAU	24867
6063	GACGACUC G AACTUCCG	6492	GCGAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG GAGUCGUC	24868
6077	CGCCCAU G GACUGAGG	6493	CTUCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AATGCGG	24869
6078	GCCCAUG G ACUGAGGC	6494	GCTCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CAAUGGCG	24870
6082	AUUGGACU G AGGCACGA	6495	UCGUGCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AGUCCAAU	24871
6084	UGGACUGA G GCACGAU	6496	AUUGGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UCAGUCCA	24872
6089	UGAGGCAC G AUAUGC	6497	GCAUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG GUGCCUCA	24873
6099	AUCAUGCU G GACAAAU	6498	AUGUUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AGCAUGAU	24874
6100	UCAUGCU G ACAACAU	6499	GAUUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CAGCAUGA	24875
6121	UGCAACAC G GACUGAUC	6500	GAUCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG GUUUGGCA	24876
6122	GCCAAAC G ACUGAUCG	6501	CGAUCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CGUUGGC	24877
6126	AACGACU G AUCGCUCA	6502	UGACGAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AGUCCGUA	24878
6148	ACCAACCA G AGCGUGAG	6503	CUACGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UGGUUGU	24879
6154	CAGAGCGU G AGAGGUA	6504	UACCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AGCUCUG	24880
6156	GAGCGUGA G AAGGUAUA	6505	UAUACCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UCACGUC	24881
6159	CGUGAGAA G GUAAUAC	6506	GUAAUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UUCUCACG	24882
6171	UAUACCAU G GAUGGGGA	6507	UCCCAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AUGGUADA	24883
6172	AUACCAUG G AUGGGGA	6508	UUCCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CAUGGUUAU	24884
6175	CCAUGAU G GGAUAUC	6509	GUUACCC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AUCCAUGG	24885
6176	CAUGAUG G GGAUACC	6510	GGUAUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CAUCCAUG	24886
6177	AUGGAUG G GAUACCG	6511	CGUAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CCAUCCAU	24887
6178	UGGAUGG G AAUACCG	6512	CCGUUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CCCAUCCA	24888
6185	GGAAUACC G GCUCAGAG	6513	CUUGAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG GUAUUAUC	24889
6191	CCGCUCA G AGGAGAAG	6514	CUUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UGAGCCGG	24890
6193	GGCUCAGA G GAGAAGAG	6515	CUUUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UCUGAGCC	24891
6194	GCUCAGAG G AGAAGAGA	6516	UCUUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CUCUGAGC	24892
6196	UCAGAGGA G AAGAGAGA	6517	UCUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UCCUCUGA	24893
6199	GAGAGAA G AGAGAAA	6518	UUUUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UUCUCUC	24894
6201	GGAGAAG G AGAAAAA	6519	UUUUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UCUCUCC	24895
6203	AGAGAGA G AAAAACU	6520	AGUUUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG UCUCUUCU	24896
6216	AACUUCU G GAACUGUU	6521	AACAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG AGAAAGU	24897
6217	ACUUUCUG G AACUGUUG	6522	CAACAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCUUUAGGC UCCGGG CAGAAAGU	24898

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6225	GAACUGUU G AGGACUGC	6523	GCAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGUUC	24899
6227	ACUGUUGA G GACUGCAG	6524	CUGCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACAGU	24900
6228	CUGUUGAG G ACUGCAGA	6525	UCUGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACACG	24901
6235	GCACUGCA G AUCUGCCA	6526	UGGCAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAGUCC	24902
6248	GCCAGUUU G GCUGGCUU	6527	AAGCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACUGGC	24903
6252	GUUGGCU G GCUUACAA	6528	UUGUAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAAAC	24904
6261	GUUACAA G GCUUACAG	6529	GUUGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAGAC	24905
6270	GUUGCAGC G GCUUGAGU	6530	ACUCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCAAC	24906
6274	CAGCGGCU G GAGUGUCA	6531	UGACACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCGCGU	24907
6275	AGCGGCGU G AGUGUCAU	6532	AUGACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCGCU	24908
6289	CAUACAC G ACCGGAGG	6533	CUUCCGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUUUG	24909
6293	CCACGACC G GAGUGUGU	6534	ACCACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCGUG	24910
6294	CACGACCG G AGGUGUGU	6535	CACCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUCGUG	24911
6296	CGACCGGA G GUGGUGCU	6536	AGCACCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGGGUG	24912
6299	CCGGAGGU G GUGUUUUG	6537	CAAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCCGG	24913
6307	GGUGUUU G AUGGUUUU	6538	AGGACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCACG	24914
6310	GUUUGAU G GUCCUAGG	6539	CCUAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAAGC	24915
6317	UGGUCCUA G GACAAACA	6540	UGUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGBACCA	24916
6318	GUUCUAG G ACARACAC	6541	GUGUUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGGACC	24917
6334	CAAUUUA G AAGACAAC	6542	GUUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAAAUTUG	24918
6337	UUUUGAA G ACNACAAC	6543	GUUGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUAAAA	24919
6346	ACAACAAC G AAGUGGAA	6544	UUCACUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGUUGU	24920
6351	AACGAAGU G GAAGUCAU	6545	AUGACUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCGUU	24921
6352	ACGAAGUG G AAGUCAUC	6546	GAUGACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUUCGU	24922
6363	GUCAUCAC G AAGCUUGG	6547	CCAAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUGAC	24923
6370	CGAAGCUU G GUGAAAGG	6548	CCUUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUUCG	24924
6373	AGCUUGGU G AAGGGAAG	6549	CUUCCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAAGCU	24925
6377	UGGUGAAA G GAAGAUUC	6550	GAUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUTACCCA	24926
6378	GGUGAAAG G AAGAUUCU	6551	AGAAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCACC	24927
6381	GAAGGAA G AUUCUGAG	6552	CUCAGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUUUC	24928
6387	AAGAUUCU G AGGCCGCG	6553	CGCGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAUUCU	24929
6389	GAUUCUGA G GCCGCGCU	6554	AGCGCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGAAUC	24930
6398	GCCGCGCU G GAUUGACG	6555	CGUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGCGGC	24931
6399	CCGCGCUG G AUUGACGC	6556	GGUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCGCGG	24932
6403	GCUGGAU G ACGCCAGG	6557	CCUGGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCAGC	24933
6410	UGACGCCA G GGUGUACU	6558	AGUACACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGUCA	24934
6411	GACGCCA G GUGUACUC	6559	GAGUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGCGUC	24935
6420	GUGUACUC G GAUCACCA	6560	UGGUGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUACAC	24936
6421	UGUACUCG G AUCACCAG	6561	CUUGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGUACA	24937
6429	GAUCACCA G GCACUAAA	6562	UUUAGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUGAUC	24938

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6438	GCACUAAA G GCGUUCAA	6563	UUGAACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAGUGC	24939
6447	GCGUUCAA G GACUUGC	6564	GCGAAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAACGC	24940
6448	GGUUCAAG G ACUUGCC	6565	GCGAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGAACG	24941
6459	UUGCCUC G GGAACAG	6566	CGUUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGGCAG	24942
6460	UUGCCUC G GAAACGU	6567	AGUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGGCGA	24943
6461	GCGUCUG G AAGAGGU	6568	AGUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAGGCG	24944
6474	CGUUCUA G AUAGGCU	6569	AGCCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGAACG	24945
6478	CUCAUAU G GGUCAUU	6570	AAUGAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCUGAG	24946
6479	UCAGUAU G GCUCAUUG	6571	CAUAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAUCUGA	24947
6487	GGCUCAU G AGGUUCUG	6572	CAGAACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGAGCC	24948
6489	CUCAUUA G GUUCUGG	6573	CCAGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUGAG	24949
6495	GAGGUUC G GGAAGAU	6574	AUCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACUUC	24950
6496	AGGUUCU G GAAAGAU	6575	CAUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAACCU	24951
6497	GUUUGUG G AAGAUUC	6576	GCAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAACCC	24952
6501	CUUGGAA G AUGCCUGA	6577	UCAGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCGAG	24953
6508	AGAUCCU G AGCACUUC	6578	GAAUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCAUCU	24954
6519	CACUUCU G GGAAGAC	6579	GUUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAAGUG	24955
6520	ACUUCAG G GGAAGACA	6580	UGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGAAGU	24956
6521	CUUUCAG G GAAGACAU	6581	AUGUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGAAG	24957
6522	UUCAUUG G AAGACAU	6582	CAUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGAA	24958
6525	AUGGGAA G ACAUGGGA	6583	UCCCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGCCAU	24959
6530	AGACAUU G GGAAGCAC	6584	UGUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUCUUC	24960
6531	AAGACAU G GAAGCACU	6585	AGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGUCUU	24961
6532	AGACAUU G AAGCACU	6586	AAGUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGUCU	24962
6541	AAGACAU G ACACCAUG	6587	CAUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUGCUU	24963
6558	UACBUUG G GCCACUGC	6588	GCAGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACGUA	24964
6568	CCACUGA G AGAAGGA	6589	UCCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAGUGG	24965
6570	ACUGCAG G AAGGAGG	6590	CCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGCAGU	24966
6574	CAGAGAA G GAGGAAGA	6591	UCUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCUCUG	24967
6575	AGAGAAU G AGAAGAG	6592	CUUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCUCU	24968
6577	AGAAAGG G GAAGAGCU	6593	AGCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUCUU	24969
6578	GAAGGAG G AAGAGCUC	6594	GAGCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUUCU	24970
6581	AGAGGAA G AGCUCACA	6595	UGUAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUCUU	24971
6590	AGCUCACA G AUGGCCC	6596	GGGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGAGCU	24972
6594	CACAGAU G GCCCUGGA	6597	UCCAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUGUG	24973
6600	AUGGCCU G GAGGAACU	6598	AGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCGCAU	24974
6601	UGGCCCU G AGGAACUG	6599	CAGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGCGCA	24975
6603	GCCUGGA G GAACUGCC	6600	GGCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGGCG	24976
6604	CCUGGAG G AACUGCCA	6601	UGGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGGCG	24977
6613	AACUGCCA G AUGCUCU	6602	AAGAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAGU	24978

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6624	GCUCUUA G ACAUUGC	6603	GCAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAGAGC	24979
6636	AUUGCCUU G AUUGCCUU	6604	AAGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAAU	24980
6648	GCCUUUU G AGUGUAU	6605	AUCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAGGC	24981
6654	UUGAGUGU G AUGACCAU	6606	AUGGUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACUCAA	24982
6657	AGUGUAU G ACCAUGG	6607	CCCAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACAU	24983
6663	AUGACCAU G GGAUAUU	6608	AAUACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGUCAU	24984
6664	UGACCAUG G GGAUAUU	6609	GAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGGUC	24985
6665	GACCAUG G AGUAUUU	6610	AGAUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGGUC	24986
6689	CAUGCAG G GAAGGCA	6611	UGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGCAU	24987
6690	AUGCAGC G AAGGGCAU	6612	AUGCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCAU	24988
6693	CAGCGAA G GGAUUGG	6613	CAAUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGCGU	24989
6694	AGCGAAG G GCAUUGA	6614	UCCAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCGCU	24990
6700	AGGCAU G GAAAGUA	6615	UAUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGCCU	24991
6701	GGCAUUG G AAGAUAG	6616	CUAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUGCC	24992
6705	AUUGGAA G AUAGGUU	6617	AAACCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCAU	24993
6709	GAAAGUA G GUUUGGA	6618	UCCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCUUU	24994
6714	AUAGGUU G GAGGGCG	6619	GGCCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACCUU	24995
6715	UAGGUUG G GAGGGCG	6620	AGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACCU	24996
6716	AGGUUG G AGGGCGU	6621	CAGGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAACCU	24997
6718	GUUUGGA G GCGUUC	6622	GACAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAC	24998
6729	GUGUCUU G GAGUCGC	6623	GCAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGACGC	24999
6730	CUGUCU G GAGUCGC	6624	CGGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACGC	25000
6731	UGUCUUG G AGUUGCG	6625	UCGCGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCA	25001
6738	GAGUCGC G ACCUUUU	6626	AAAAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGACUC	25002
6752	UUUCUUU G GAUGGCG	6627	CAGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGAA	25003
6753	UUCUUUG G AUGGCUA	6628	UCAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGAA	25004
6756	UUGUGAU G GUGAAGU	6629	ACUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAAC	25005
6760	GGAUGGU G AAGUCCA	6630	UGGAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUCC	25006
6769	AAGUCCA G GAACGAAG	6631	CUUCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAACU	25007
6770	AGUCCAG G AACGAAG	6632	UCUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAACU	25008
6774	CCAGGAC G AAGAUCC	6633	CGAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCUGG	25009
6777	GGAACGA G AUCGCCG	6634	CCGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUUC	25010
6784	AGAUCCG G GAUUGUG	6635	CAACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCAUCU	25011
6785	GAUCGCG G AAUGUUC	6636	GCAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCAUC	25012
6810	CUUCUCU G AUGAUUG	6637	ACAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAGAAG	25013
6813	CUUUGAU G AUUGUCU	6638	AGCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGAG	25014
6829	UAUUCCU G AGCCAGG	6639	CUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUUA	25015
6835	CUAGCCA G AGAAGCA	6640	UUGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUCAG	25016
6837	GAGCCGA G AAGCAACG	6641	CGUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUC	25017
6852	CGUUCGA G ACAGACAA	6642	UUGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAACG	25018

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6856	CGCAGACA G ACAACCAAG	6643	CUGGUUGU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UGUUGUGG	25019
6879	GUUUCUU G AUUUGUGU	6644	ACACAAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AGGAACAC	25020
6891	UGUGUCAU G ACCCUUGU	6645	ACAAGGU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AUGACACA	25021
6900	ACCCUUGU G AGCGCAGU	6646	ACUGGCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG ACAAGGCU	25022
6909	AGCGCAGU G GCAGCCAA	6647	UUGGTCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG ACUGGCU	25023
6919	CAGCCAAC G AGAUGGU	6648	ACCCAUU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AUUGGCU	25024
6921	GCCACGUA G AUGGGUGU	6649	CAACCAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UCGUUGC	25025
6924	AACGAGAU G GGUUGGCU	6650	AGCCAAC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AUCUGU	25026
6925	ACGAGAU G GUUGGCUA	6651	UAGCCAAC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG CAUCUCU	25027
6929	GAUGGGUU G GCUAGUA	6652	UAUCUAGC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AACCAUC	25028
6934	GUUGGCUA G AUAAGACC	6653	GGUUAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UAGCCAAC	25029
6939	CUAGAUAA G ACCAAGAG	6654	CUCUUGU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UUAUGUAG	25030
6945	AAGACCAC G AGUACAU	6655	AUGUACU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UUGUUCU	25031
6949	CAAGAGU G ACAUAAGC	6656	GUUAUUG GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG ACUCUUG	25032
6967	GUUUGUU G GCAAGA	6657	UUUUUCC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AACCAAC	25033
6968	UUUGUUUG G GCAAGAA	6658	UUUUUUG GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG CAAACAA	25034
6974	UGGGCAA G AAUUGAGG	6659	CCUCAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UUUGCCA	25035
6979	AAAGAAU G AGGUCAA	6660	CUUGACU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AAUUCUU	25036
6981	AGAAUUA G GUCAAGGA	6661	UCCUUGC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UCAAUUCU	25037
6987	GAGGUCAA G GAGAAU	6662	AAAUUCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UUGACCU	25038
6988	AGGUCAA G AGAAUUC	6663	GAUAUUCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG CUUGACCU	25039
7000	GUCAAGGA G AAUUCAG	6664	CUGAAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UCCUUGAC	25040
7002	UUCAGCAU G GAGAGU	6665	AACUUCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AUGCUGAA	25041
7003	UCAGCAUG G GAGAGU	6666	AAACUUC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG CAUGCUGA	25042
7004	CAGCAUGG G AGAGUUC	6667	GAACUUCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG CCAUGCUG	25043
7006	GCAUGGGA G AGUUUCU	6668	AAGAAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UCCCAUGC	25044
7017	UUUCUUU G GACUUGAG	6669	CUCAAGU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AAAAGAA	25045
7018	UUCUUUUG G ACUUGAGG	6670	CCUCAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG CAAAGAA	25046
7023	UUGGACU G AGGCCGGC	6671	GCCGGCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AAGUCAA	25047
7025	GGACUUGA G GCGGGCAA	6672	UUGCCGC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UCAAGUCC	25048
7029	UUGAGGCC G GCAACAGC	6673	GCUGUUG GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG GGCUCUAA	25049
7040	AACAGCCU G GUCACUGU	6674	ACAGUAG GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AGGCUUGU	25050
7056	UAGGCUU G ACAACAGC	6675	GCUGUUG GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG ACAGCUA	25051
7065	ACAACAGC G GUCCUCAC	6676	GUGAGAC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG GCUGUUGU	25052
7092	AGCAUUTU G AUCACGUC	6677	GACUGAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AAUUCU	25053
7102	UACAGUCA G AUUACAUC	6678	GAUGUAU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UGACUGA	25054
7122	ACCUCAU G ACCUCAU	6679	AUUGAGU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG AAUGAGU	25055
7140	AAGGUUCA G GCAAGUCC	6680	GCACUUG GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UGAACGUU	25056
7166	ACUUGCGC G AGGCUUCC	6681	GGAAGCU GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG GCGGAGU	25057
7168	UCGCGCGA G GCUUCCCC	6682	GGGGAAC GGA GCGUUUAGGC UCCUUCUAGAAGG GCGGUUAGGC UCCGGG UCGGCGA	25058

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7183	CCUUCGUC G AUGUUGGA	6683	UCCAACAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GACGAGG	25059
7189	UCCAGUUV G GAGUGUCG	6684	CGACATVC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AACAUCA	25060
7190	CGAUGUUG G AGUGUCGG	6685	CCGACACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAACAUCC	25061
7197	GGAGUGUC G GCUUCUCCU	6686	AGGAGAGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GACACUCC	25062
7216	UAGCAGCC G GAUGCUGG	6687	CCAGCAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGUGCUA	25063
7217	AGCAGCCG G AUGCUGGG	6688	CCAGCAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGUGCU	25064
7223	CGAUGUC G GGAACAAG	6689	CUUGUCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCAUCCG	25065
7224	GGAUGUC G GGAACAAG	6690	ACUUGCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAGCAUCC	25066
7225	GAGUCUG G GACAAGUC	6691	GACUUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCAGCAUC	25067
7226	AUGCUGG G ACAAGUCA	6692	UGACUUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCCAGCAU	25068
7248	ACCGUUC G GUACAGC	6693	GCUGUAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUACAGGU	25069
7257	GUACAGC G GCAACACU	6694	AGUGUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCUUUAAC	25070
7290	GCCUACAU G GUUCCCGG	6695	CCGGGAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGUAGGC	25071
7297	UGGUUCC G GUUGGCAA	6696	UUGCCAAAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GGGAAACCA	25072
7301	UCCCGGUU G GCAAGCUG	6697	CAGUUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AACCGGA	25073
7309	GCAAGCU G AGCAAGU	6698	CAUUGCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCUUUGC	25074
7311	CAAGCUG G GCAAGCG	6699	CGAUUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCAGUUG	25075
7331	AGCCAGC G GCGACAG	6700	CUGUCCG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCUUGGCU	25076
7334	CCAGCGC G GACAGCGG	6701	CCGUGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCUGG	25077
7335	CAGCGCG G ACAGCGC	6702	GCGUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCUGG	25078
7341	CGACAGC G GCGGAAU	6703	AUCCGCG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCUUGCG	25079
7345	CAGCGGC G GAAUCAUG	6704	CAUGAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCUGG	25080
7346	AGCGCG G AAUCAUGA	6705	UCAUGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCUGG	25081
7353	GGAUACU G AAGAAGC	6706	GCGUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGAUUCC	25082
7356	AUCAUGA G AACGCUU	6707	ACAGCGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCAUGAU	25083
7368	GCUUAGU G GAUGGCAU	6708	AUGCAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUACAGC	25084
7369	CUUAGUG G AUGGCAUC	6709	GAUGCAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CACUACAG	25085
7372	UAGUGAU G GCAUCGUG	6710	CACGAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUCCACUA	25086
7380	GGCAUCU G GCCACGGA	6711	UCCGUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACAGUCC	25087
7386	GUGGCCAC G GACGUCC	6712	GGGACUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUGGCCAC	25088
7387	UGGCCAC G AGUCCCA	6713	UGGACGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGUGGCCA	25089
7396	ACGUCCCA G AAUAGAG	6714	CUCUAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGGACGU	25090
7402	CAGAUUA G AGCGACC	6715	GGUGGCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UAAUUCUG	25091
7425	AUCAUGA G AAGAAGU	6716	ACUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCAUGAU	25092
7428	AUGCAGAA G AAAGUUGG	6717	CCAAUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUGCAU	25093
7435	AGAAGU G GACAGAU	6718	GAUCUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AACUUCU	25094
7436	GAAAGU G ACAGAUCA	6719	UGAUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAACUUC	25095
7440	GUUGGACA G AUCAUGU	6720	AGCAUGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCCAAC	25096
7449	AUCAUGU G AUUUGU	6721	ACCAAGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCAUGAU	25097
7455	CUGAUCU G GUGUCUCU	6722	AGAGACAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAGAUCA	25098

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7479	GUAGUAGU G AACCCGUC	6723	GACGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACUAC	25099
7491	CCGUCUGU G AAGACAGU	6724	ACUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGACGG	25100
7494	UCUGUGAA G ACAGUACG	6725	CGUACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACAGA	25101
7502	GACAGUAC G AGAAGCCG	6726	CGGUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACUGUC	25102
7504	CAGUACG G AAGCCGGA	6727	UCCGGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUACUG	25103
7510	GAGAGCC G GAUUUUUG	6728	CAAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUCUC	25104
7511	AGAGCCG G AAUUUUUG	6729	UCAAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUUCU	25105
7518	GGAAUUU G AUCACGGC	6730	GCGUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUUCC	25106
7524	UUAUAC G GCGCAGC	6731	GCUGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUCAA	25107
7533	GCGCAGC G GUGACGCU	6732	AGCGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUGCGC	25108
7536	GCAGCGU G ACGUUUG	6733	CAAAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCGUCG	25109
7544	GACGCUU G GGAGAU	6734	CAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCGUC	25110
7545	ACGCUUG G GAGAAUG	6735	CCAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCGU	25111
7546	CGCUUGG G AGAAUGA	6736	UCCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAAGCG	25112
7548	CUUUGGA G AAGGAGC	6737	GCUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAAG	25113
7552	GGAGAAU G GAGCAAGC	6738	GCUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUCC	25114
7553	GGAGAAU G AGCAAGCU	6739	AGUUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUC	25115
7558	CUCUGUU G GAACGCAA	6740	UUGCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACAGAG	25116
7569	UCUGUUU G AAGCAAC	6741	GUUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACAGA	25117
7588	UGGCCAU G GACUCUGC	6742	GCAGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUGCAG	25118
7589	UGCAUCG G ACGUUGCC	6743	GGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUGGCA	25119
7609	UAGUGCU G GGGUUGG	6744	CCAACCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCAUGA	25120
7610	CAUGCGU G GGGUUGU	6745	ACCAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGCAUG	25121
7611	AUGCGUG G GGUUGGU	6746	AACCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACGCAU	25122
7612	UGGUGGG G GUUGGUU	6747	CAACCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCCCCA	25123
7616	UGGGGUU G GUUGCAU	6748	AUGACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUAUG	25124
7640	CAUACAU G GACACUCA	6749	UGAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUAU	25125
7641	AUAACAU G AACAUCU	6750	AUGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAGAG	25126
7653	CUCAAAA G AACAUGA	6751	UCCAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUCU	25127
7659	AAGAACA G GAAAAACC	6752	GGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGUUAU	25128
7660	AGAACAUG G AAAAAACA	6753	UGGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGUUAU	25129
7669	AAAAACA G GACUAAA	6754	UUUAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUUU	25130
7670	AAACCAAG G ACTUAAA	6755	UUUUUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUUU	25131
7679	ACUAAAA G AGGUGGG	6756	CCCCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUAGU	25132
7681	UAAAAAG G GUGGGCA	6757	UGCCCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUUUA	25133
7684	AAAGAGU G GGGCAAA	6758	UUUUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUUU	25134
7685	AAGAGUG G GGCNAAAG	6759	CUUUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCUUU	25135
7686	AGAGUGG G GCNAAAGG	6760	CUUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACUCUU	25136
7693	GGGCAAA G GACGCACC	6761	GGUGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGGCC	25137
7694	GGCAAAAG G ACGCACCU	6762	AGGUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGCC	25138

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7704	CGCACUUC G GGAGAGGU	6763	ACCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUGCG	25139
7705	GCACUUG G GAGAGGUU	6764	AACUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGUGC	25140
7706	CACCUUG G AGAGGUU	6765	AAACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGUG	25141
7708	CCUUGGGA G AGGUUGG	6766	CCAAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAG	25142
7710	UUGGAGA G GUUGGAA	6767	UCCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCCAA	25143
7715	AGAGGUU G GAAGAAA	6768	UUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACUCU	25144
7716	GAGGUU G AAAGAA	6769	UUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACUC	25145
7720	UUUGAAA G AAAGACUC	6770	GAGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCCAAA	25146
7724	GAAGAAA G ACUCAACC	6771	GGUGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCUUU	25147
7734	CUCACCA G AUGACAA	6772	UUUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGAG	25148
7737	AACAGAU G ACAAGA	6773	UUUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUGGU	25149
7744	UGACAAA G AAGAGUUC	6774	GAACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGUCA	25150
7747	CAAGGAA G AGUUCACU	6775	AGUGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUGAAC	25151
7757	GUACGUA G GUACCGCA	6776	UGCGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUGAAC	25152
7768	ACCAGAA G AGGCAUC	6777	GAUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGCGU	25153
7770	CGCAAGA G GCCAUCU	6778	AUGAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUUC	25154
7780	CCAUAUC G AAGUCGAU	6779	AUCGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGAUG	25155
7786	UCGAGUC G AUGGCUA	6780	UGAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACUUCG	25156
7797	CGCUCAG G GCAAAACA	6781	UGUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUAGCG	25157
7811	ACAGGCC G GAAAGNAG	6782	CUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGUGU	25158
7812	CACGCCG G AAGAAGG	6783	CUUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCGUG	25159
7816	CCAGGAA G AAGGCAU	6784	AUUGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCUUG	25160
7819	GGAAGNA G GCAUUGUC	6785	GACAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCUUC	25161
7831	AUGUCACU G GAGGGCAU	6786	AUGCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGACU	25162
7832	UGUCACU G AGGCAUC	6787	GAUGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGACA	25163
7834	UCACUGA G GCAUCCA	6788	UGAUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGUGA	25164
7835	CACUGGAG G GCAUCCAG	6789	CUGGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCAGUG	25165
7850	AGUCUCUA G GGGCAG	6790	CUGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGAGACU	25166
7851	GUUCUAG G GGCACAG	6791	GCUGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGAGAC	25167
7852	UCUCUAG G GCACAGCA	6792	UGCUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUAGAGA	25168
7866	GCAAAACU G AGAUGGCU	6793	AGCCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUUUG	25169
7868	AAACUGA G AUGGCUG	6794	CAAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGUUU	25170
7871	ACUGAGU G GCUUGUCG	6795	CGACCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUAGU	25171
7875	AGAUUGGU G GUCGAACG	6796	CGUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUCU	25172
7879	GGCUGGU G AAGCGAGG	6797	CCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACCAGC	25173
7883	GUUGAAC G GAGGUUUC	6798	GAACCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCGAC	25174
7884	GUCAACG G AGGUUUCU	6799	AGAAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCGAC	25175
7886	CGACGGA G GUUUCUCG	6800	CGAGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUUCG	25176
7894	GUUUCUC G AACCGGUC	6801	GACCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAAACC	25177
7899	CUGAAC G GUUGGAA	6802	UUUCGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCGAG	25178

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7903	AACCGGUC G GAAAAGUG	6803	CACUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACCGGUU	25179
7904	ACCGGUCG G ARAAGUGA	6804	UACUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACCGGU	25180
7911	GGAAAGU G AUUGACCU	6805	AGGUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUUUCC	25181
7915	AAGUGAU G ACUUGGA	6806	UCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCACUU	25182
7921	UUGACCUU G GAUGUGA	6807	UCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGUCAA	25183
7922	UGACCUUG G AUGUGGA	6808	UCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCA	25184
7927	UUGAUUG G GAAGAGGC	6809	GCCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCCAA	25185
7928	UGGAUGUG G AAGAGGCG	6810	GCCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUCUA	25186
7931	AUGUGGA G AGGCGGUU	6811	AACCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACAU	25187
7933	GUGAAGA G GCGGUUGG	6812	CAACCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUCCAC	25188
7936	GAAGAGG G GUUGGUGU	6813	ACACCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUCUUC	25189
7940	AGCGGUG G GUGUACU	6814	AGUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCGCCU	25190
7953	UACUUAU G GCAACCCA	6815	UGGUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUAUGUA	25191
7967	CCAAANA G AGUCCAG	6816	CUUGGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUGG	25192
7975	GAGUCAA G AGUCAGA	6817	UCUGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGACUC	25193
7982	AGAAGUA G AGGUAACA	6818	UGUACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUUCU	25194
7984	AGUCAGA G GUACACA	6819	UGUGUACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGACUU	25195
7985	AGUCAGG G GUACACA	6820	UUGUGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUGACU	25196
7995	UACACAA G GCGGUCC	6821	GCGCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGUGA	25197
7996	ACACAAAG G GCGGUCC	6822	GGACCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGUU	25198
7999	CAAGGGC G GUCCCGGA	6823	UCCGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUUGG	25199
8005	GCGUCCC G GACAUGAA	6824	UUAUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGACCGC	25200
8006	CGGUCCG G ACAUGAG	6825	CUUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGACCG	25201
8011	CCGGACAU G AAGAGCCC	6826	GGGCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUCCCG	25202
8014	GACAUGAA G AGCCCCAA	6827	UUGGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUGUC	25203
8038	AAAGUUAU G GAUGGAAC	6828	GUUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAACUUU	25204
8039	AAGUUAUG G AUGGAACA	6829	UGUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACUUU	25205
8042	UAUGGAU G GAACAUUG	6830	CAAUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUA	25206
8043	UAUGGAUG G AACAUUGU	6831	ACAAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCAUA	25207
8058	GUACACCAU G AAGAGUGG	6832	CCACUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGUGAC	25208
8061	ACCAUGAA G AGUGGAGU	6833	AUCCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUGGU	25209
8065	UGAAGAGU G GAGUGGAU	6834	AUCCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUA	25210
8066	GAAGAGU G AGUGGAUG	6835	CAUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCUUC	25211
8070	AGUGGAGU G GAUGUGU	6836	AACACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCACU	25212
8071	GUGGAGUG G AUGUGUUC	6837	GAACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCCAC	25213
8084	GUUCUACA G ACCUUCUG	6838	CAGAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUAGAAC	25214
8092	GACCUUCU G AGUGUUGU	6839	ACAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGGUC	25215
8101	AGUGUUGU G ACACCCUC	6840	GAGGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACACU	25216
8116	UCCUUUGU G ACAUCGGA	6841	UCCGAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAGGA	25217
8122	GUGACAU G GAGAGUCC	6842	GGACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGUCAC	25218

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8123	UGACAUCG G AGAGUCCU	6843	AGGACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUGUCA	25219
8125	ACAUCGGA G AGUCCUCG	6844	CGAGGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAUGU	25220
8143	CAAGUCU G AGGUGAA	6845	UUCACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCACUUG	25221
8145	AGUGCUGA G GUUGAAGA	6846	UCUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGCACU	25222
8149	CUGAGGUU G AAGAGCAU	6847	AUGCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACGUCAG	25223
8152	AGGUGAA G AGCAUAGG	6848	CCUAGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACCU	25224
8159	AGAGCAUA G GACGAUUC	6849	GAAUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUUCUCU	25225
8160	GAGCAUAG G ACGAUUCG	6850	CGAAUCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGCUC	25226
8163	CAUAGGAC G AUUCGGGU	6851	ACCGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCUAUG	25227
8168	GACGAUUC G GGUCCUUG	6852	CAAGGACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAUCGUC	25228
8169	ACGAUUCG G GUCCUUGA	6853	UCRAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAAUCGU	25229
8176	GGGUCCUU G AAUUGGUU	6854	AACCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGACCC	25230
8181	CUUGAAU G GUUGAGGA	6855	UCCUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUCACG	25231
8185	AAUUGGUU G AGGACUUG	6856	CCAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAUUU	25232
8187	AUGGUUGA G GACUGGCU	6857	AGCCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACCAU	25233
8188	UGGUUGAG G ACUGGCUU	6858	CAGCCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACCA	25234
8192	UGAGGACU G GCUGCAC	6859	GGUGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCUCA	25235
8201	GCUGCACC G AGGGCCNA	6860	UUGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUCCAGC	25236
8203	UGCACCGA G GGCACAGG	6861	CCUUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUGCA	25237
8204	GCACCCAG G GCCAAGGG	6862	CCCUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGUGUC	25238
8210	AGGGCCNA G GGAUUUUU	6863	AAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGCCCU	25239
8211	GGGCCAAG G GAUUUUG	6864	CAAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGCCC	25240
8212	GGCCCAAG G AAUUUUG	6865	GCAAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGGCC	25241
8223	UUUUGGUU G AAGGUGCU	6866	AGCACUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCAAAA	25242
8226	UGCUGGAA G GUGCUCU	6867	CAGAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACGCA	25243
8247	UACAUGCC G AAAGUCAU	6868	AUGACUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCAUGUA	25244
8257	AAGUCAUA G AGAAGAU	6869	CAUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUQACUU	25245
8259	GUCAUAGA G AAGAUGGA	6870	UCCAUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAUGAC	25246
8262	AUAGAGAA G AUGGAGCU	6871	AGUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUAU	25247
8265	GAGAAGAU G GAGCUGCU	6872	AGCAGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUUCUC	25248
8266	AGAAGAU G AGCUGCUC	6873	GAGCAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUUC	25249
8282	CCACGCC G GUUUGGG	6874	CCCCAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUGG	25250
8287	GCCGGUUA G GGGGGGGA	6875	UCCCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCGGC	25251
8288	CCGGUAUG G GGGGGGAC	6876	GUCCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACCGG	25252
8289	CGUAUGG G GGGGGACU	6877	AGUCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUACCG	25253
8290	GUUAUGGG G GGGGACUG	6878	CAGUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUACCC	25254
8291	UAUUGGG G GGGACUUG	6879	CCAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACUAC	25255
8292	UAUUGGG G GGCACUGU	6880	ACCAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACUA	25256
8293	AUGGGGG G GACUGGUC	6881	GACCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACU	25257
8294	UGGGGGG G ACUGGUCA	6882	UGACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACCA	25258

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8298	GGGGGACU G GUCAGAAA	6883	UUUCUGAC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG AGUCCCCC	25259
8303	ACUGGUC A G AACCCAC	6884	GUGGGUUU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UGACACAGU	25260
8318	ACUCUCAC G GAUUUCCA	6885	UGGAAUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG GUGAGAGU	25261
8319	CUCUCACG G AAUCCAC	6886	GUGGAAUU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CGUAGAG	25262
8332	CCAGCCAC G AGAUGAU	6887	AAACAUCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG GUGCGUGG	25263
8334	ACGACAGA G AUGUAUUG	6888	CAUAUCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UCGUGCGU	25264
8342	GAUGUAU G GGUGAGUC	6889	GACUACAC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG AAUAACUC	25265
8343	AUGUAUUG G GUGAGUCG	6890	CGACUCAC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CAUAACAU	25266
8346	UAUUGGGU G AGUCGAGC	6891	GCUCGACU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG ACCCAUA	25267
8351	GGUGAGUC G AGCUUCAG	6892	CUGAAGCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG GACUACAC	25268
8359	GAGCUUCA G GCAUUGUG	6893	CACAUGC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UGAAGCUC	25269
8367	GGCAUUG G GUACAUUC	6894	GAUUGUAC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG ACAUUGCC	25270
8379	CAUUCAGU G AAUAUGAC	6895	GUCAUAU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG ACUGAAUG	25271
8385	GUAUAU G ACCAGCCA	6896	UGGUGGU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG AAUUCAC	25272
8394	ACCAGCCA G GUGCUCCU	6897	AGGAGCUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UGGCUGGU	25273
8404	UGCUCCUA G GAAGAUG	6898	CAUUCUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UAGGAGCA	25274
8405	GCUCUAG G AAGAAUGG	6899	CAUUCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CUAGGAGC	25275
8408	CUUAGGA G AAUGGAA	6900	UUUCAU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UUCUAGG	25276
8412	GGAGAAG G GAAAAAG	6901	CUUUUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG AUUCUUC	25277
8413	GAAGAUG G AAAAAAGG	6902	CCUUUUU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CAUUCUC	25278
8420	GGAAAAA G GACCUGGA	6903	UCCAGUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UUUUUUC	25279
8421	GAAGAAAG G ACCUGGA	6904	UCCAGU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CUUUUUUC	25280
8426	AAGGACCU G GAAGGAGC	6905	GUCCCUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG AGGUCCU	25281
8427	AGGACCU G AAGGGACC	6906	GGUCCCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CAGGUCCU	25282
8430	ACCUGGA G GGACCCCA	6907	UGGGUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UUCACAGU	25283
8431	CTUGGAAG G GACCCCAA	6908	UUGGGUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CUUCCAGG	25284
8432	CUGGAAG G ACCCCAAU	6909	AUUGGGU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CCUCCAG	25285
8443	CCCAUAC G AGGAAGU	6910	AUCUUCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG GAUUGGG	25286
8445	CAUACGA G GAAGAUGU	6911	ACAUCUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UCGUAUUG	25287
8446	AAUACGAG G AAGAUGA	6912	UACAUCU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CUCGUUUG	25288
8449	ACGAGGAA G AUGAAGC	6913	GUUAACU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UUCUCCU	25289
8460	GUAAACU G GGAAGUGG	6914	CCACUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG AAGUUUAC	25290
8461	UAACUUG G GAAGUGGA	6915	UCCACUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CAAGUUUA	25291
8462	AAACUUG G AAGUGGAA	6916	UCCACU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CCAAGUUU	25292
8467	UGGAAGU G GAACACAGG	6917	CCUGUUC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG ACUUCCCA	25293
8468	GGGAAGU G ACCAGGG	6918	CCUGGUU GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CACUUCUCC	25294
8474	UGGAACCA G GCGGUGG	6919	CCACCGC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG UGGUCCCA	25295
8475	GGAAACCA G GCGGUGG	6920	CCACCGC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG CUGGUUCC	25296
8478	ACCAGGGC G GUGGGGAA	6921	UUUCCAC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG GCCUGGU	25297
8481	AGGGCGGU G GGAAGACC	6922	GGUUUCC GGA GCCGUUAGGC UCCCUUCACAGGA GCCGUUAGGC UCCGGG ACCGCCU	25298

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8482	GGGCGGUG G GAAACCC	6923	GGGUUUC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CACCGCCC	25299
8483	GGCGUGG G AAACCCC	6924	GGGUUUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CCACCGCC	25300
8503	UAAACUA G ACACAGU	6925	ACUGGUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGAGUUGA	25301
8520	AAAUAUA G AACAGAU	6926	AUCUGUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UUGAUUUU	25302
8525	CAAGACA G GAUUAAC	6927	GUUCAU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUUUG	25303
8526	AAAGACAG G AUUAACG	6928	CGUCAAU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CUGUUCUU	25304
8530	ACAGGAU G AACGACU	6929	GAGUGUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AAUCCUGU	25305
8534	GAUUAAC G ACUAGGC	6930	GCCUGAU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GUUCAUUC	25306
8540	ACGACUA G GCGUGAU	6931	ACUACGC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGAGUCGU	25307
8545	UCAGGCG G AGUACAGU	6932	ACUGUACU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AGCCCUGA	25308
8556	UACAGUUC G ACGUGCA	6933	UGCCACGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GAACUGUA	25309
8561	UUCGACG G GCACACG	6934	CGUGGUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACGUCGAA	25310
8569	GCACAC G AUGAGAAC	6935	GUUCUAU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GUGUGCC	25311
8572	ACCACGAG G AGAACAC	6936	GUGGUUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUUGUGU	25312
8574	CACGAUA G AACACCC	6937	GGUGGUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCAUCUGU	25313
8588	CCCAUAU G AACUGGA	6938	UCCAGGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UUAUUGGG	25314
8594	UAGAACCU G GAACUAUC	6939	GAUAGUUC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUUCUA	25315
8595	AGAACCU G AACUAUA	6940	UGAUAGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CAGGUUCU	25316
8605	ACUACAC G GCAGUAU	6941	AUAACUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GUGAUAGU	25317
8614	CGAGUAU G AUGUGAG	6942	CUUCACU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUAACUGC	25318
8619	UAGUAU G AGCCAC	6943	GUGGCUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACAUCAUA	25319
8629	AGCCACA G GCUCGCG	6944	GGCGAGC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGUGGGCU	25320
8646	AGUUGCU G GUCUAUG	6945	CCAUUGC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AGCGNACU	25321
8653	UGGUCAU G GAGUGUC	6946	GACACUC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUUGACCA	25322
8654	GGUUAU G AGUGUCA	6947	UGACCACU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CAUUGACC	25323
8658	AAUGAGU G GUCAGGU	6948	AGCUGAC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCCAUU	25324
8663	AGUGUCA G GCUCUCU	6949	AGAGAGC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGACCACU	25325
8681	AAACCAU G GACACCA	6950	UGGUGUC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGUUUU	25326
8682	AAACCAU G GACACCAU	6951	AUGGUGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CAUGUUUU	25327
8683	AACCAUG G ACACCAU	6952	GAUGGUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUGGUU	25328
8694	ACCAUAC G AAUGUAC	6953	GUACAUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GUGAUUGU	25329
8709	ACCACAU G GCAUGAC	6954	GUAUGGC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGUGU	25330
8715	AUGGCAU G ACUGAC	6955	GUGUCAGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGCCAU	25331
8719	CCAUGACU G ACACUACU	6956	AGUAGUGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AGUCAUGG	25332
8734	UCCUUC G GCGCAG	6957	CUGUGCC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GAAGGGAG	25333
8735	UCCUUC G GCGCAGC	6958	CGUGUCG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CGAAGGGA	25334
8744	GCAGCAG G AGUGUCA	6959	UGAACACU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GCUGGUC	25335
8755	UGUCAA G AGAAGUG	6960	CACCUUCU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UUGAACA	25336
8757	UUAAGA G AAGUGGA	6961	UCCACCUU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCUUGAA	25337
8760	AAAGAGAA G GUGGAC	6962	GUGUCCAC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUCUUU	25338

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8763	GAGNAGGU G GACACGAA	6963	UUCGUGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUUCUC	25339
8764	AGAGGUG G ACACGAAA	6964	UUUCUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACCUUCU	25340
8769	GUGGACAC G AAACUCC	6965	GGAGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUCCAC	25341
8779	AAGCUCCU G AACCGCCA	6966	UGCGGDU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAGCUU	25342
8788	ACCGCCA G AAGGAGUG	6967	CUCUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCGGUU	25343
8791	GCCGAGG G GAGUGAAG	6968	CUUACUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGGCG	25344
8792	GCCAGAG G AGUGAAGU	6969	ACUUCACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUGCG	25345
8796	GAAGAGU G AAGUACGU	6970	ACGUACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUC	25346
8812	UGCUAAU G AGACCAAC	6971	GGUGGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAGCA	25347
8814	CUCUAGA G ACCACCAA	6972	UUGGUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUGAG	25348
8825	CACCAACU G GUUGUGG	6973	CCACACAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGUUG	25349
8831	CUGUUGU G GCGUUUU	6974	AAACGCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACCCAG	25350
8832	UGGUGUG G GCGUUUU	6975	AAAAACG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACAACCA	25351
8841	GCGUUUU G GCGAGAGA	6976	UUUCUGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAACGC	25352
8846	UUGGCCA G AGAAAAC	6977	GUUUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCCAAA	25353
8848	UGGCCAGA G AAAAACGU	6978	ACGUUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGCCA	25354
8861	ACGUCCCA G AAUGUGCU	6979	AGCACAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGACGU	25355
8873	GUGUCUC G AGAGGAU	6980	AUUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAGCAC	25356
8875	GUUCUGA G AGGAUUC	6981	GAUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAGAGC	25357
8877	UCUGGAGA G GAUUCAU	6982	AUGAAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGAGA	25358
8878	CUCGAGG G AAUUCAU	6983	UAUGAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCGAG	25359
8888	AUUCAUAA G AAAGGUCA	6984	UGACUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUGAAU	25360
8892	AUAGAAA G GUACACAG	6985	CUGUAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUCUUAU	25361
8913	GCAGCUU G GGUGCCAU	6986	AUGGCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCUGC	25362
8914	CAGCUUG G GUGCCAU	6987	CAUGGCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCUG	25363
8926	CAUGUUU G AAGAGCAG	6988	CUGUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAACAUGG	25364
8929	UGUUGAA G AGCAGAU	6989	AUUCUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACA	25365
8934	GAAGAGCA G AAUCAAUG	6990	CAUUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUCUUC	25366
8942	GAUCAAU G GAGGAGCG	6991	CGCUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAUUC	25367
8943	AAUCAUG G AGGAGCGC	6992	GGCUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGAUU	25368
8945	UCAUUGA G GAGGCCCA	6993	UGGCGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUGA	25369
8946	CAUUGGAG G AGCGCCAG	6994	CUGGCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCAUG	25370
8954	GAGGCCCA G AGAAGCAG	6995	CUGUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGCUC	25371
8956	GCGCCAGA G AAGCAGUU	6996	AACUGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGCGC	25372
8965	AAGCAGU G AAGAUCCA	6997	UGGAUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGCUU	25373
8968	CAGUUGA G AUCCAAAA	6998	UUUGGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACUG	25374
8981	AAAAUUU G GGAGUUG	6999	CCAUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUUUU	25375
8982	AAUUUUG G GAGAUGGU	7000	ACCAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAUUUU	25376
8983	AAUUUGG G AGAUGGU	7001	CACCAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAUUU	25377
8985	UUUUGGA G AUGUGGA	7002	UCCACCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAAA	25378

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8988	UGGAGAU G GUUGAUA	7003	UCAUCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCCCA	25379
8991	GAGUUGU G GAUGAGGA	7004	UCCUCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUCUC	25380
8992	AGAUGGU G AUGAGGAG	7005	CUCCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUCU	25381
8995	UGGUGAU G AGGAGCG	7006	GCUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCACCA	25382
8997	GUGAUGA G GAGCGCGA	7007	UCGCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCAC	25383
8998	UGAUGAG G AGCGCGAG	7008	CUCGCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAUCCCA	25384
9004	AGGAGCG G AGGCACAU	7009	AUGUGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUCCU	25385
9006	GAGCGCGA G GCACAUU	7010	AGAUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCGCUC	25386
9017	ACAUCUCG G GGGGAAU	7011	AUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGAUU	25387
9018	CAUCUGCG G GGGAAUG	7012	CAUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAGAU	25388
9019	AUCUGCG G GGAAUGU	7013	ACAUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCAGAU	25389
9020	UCUGCGG G GGAUGUC	7014	GACAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCAGA	25390
9021	CUGCGGG G GAUGUCA	7015	UGACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCAG	25391
9022	UGCGGGG G AAUGUCAC	7016	GUGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCAGCA	25392
9048	UACACAU G AUGGAAA	7017	UUUCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUGUA	25393
9051	AACAUGAU G GGAAGAG	7018	UCUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUGU	25394
9052	ACAUGAU G GAAAGAGA	7019	UCUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAUGU	25395
9053	CAUGAUG G AAAGAGAG	7020	CUCUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCAUG	25396
9057	AUGGAAA G AGAGAGAA	7021	UUUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCCAU	25397
9059	GGGAAAG G AGAGAAA	7022	UUUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCC	25398
9061	GAAAGGA G AGAAAAA	7023	UUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUC	25399
9063	AAGAGGA G AAAAACC	7024	GGUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCUU	25400
9073	AAAAACC G GAGAGUUC	7025	GAAUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUUUU	25401
9074	AAAAACC G AGAGUUCG	7026	GAAACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUUUU	25402
9076	AACCCGA G AGUUCGGA	7027	UCCGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGGUU	25403
9082	GAGAGUUC G GAAGGCC	7028	GGCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUCUC	25404
9083	AGAGUUCG G AAGGCCA	7029	UGGCCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAACUCU	25405
9087	UUCGGAA G GCCAAGG	7030	CCUUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCGAA	25406
9093	AAGGCCAA G GBAAGCAG	7031	CUGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGCCUU	25407
9094	AGGCCAAG G GAAGCAGA	7032	UCUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGCCU	25408
9095	GGCCAAG G AAGCAGAG	7033	CUCUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGCC	25409
9101	GGGAAGCA G AGCAUUU	7034	AAUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUCC	25410
9110	AGCAUUU G GUUCAUGU	7035	ACAUGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUGGU	25411
9119	GUUCAUGU G GCUUGGAG	7036	CUCCGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUGAAC	25412
9124	UGUGGUC G GAGUCGC	7037	GCGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCCACA	25413
9125	GUGGUCG G AGCUCGU	7038	AGCGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGCCAC	25414
9138	CGCUUUCU G GAGUUCGA	7039	UCGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAAGC	25415
9139	GCUUUCU G AGUUCGAG	7040	CUGGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAAAGC	25416
9145	UGGAGUUC G AGGUCUG	7041	CAGAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUCCA	25417
9147	GAGUUCGA G GCUCUGG	7042	CCAGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAACUC	25418

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9153	GAGGCUCU G GGUUUUCU	7043	AGAAAACC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGAGCCUC	25419
9154	AGGCUCUG G GUUUUCUC	7044	GAGAAAC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAGAGCCU	25420
9166	UUUCUAU G AGACCCAC	7045	GUGGUUUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AUUGAGAA	25421
9169	UCAUUGAA G ACCACUGG	7046	CCAGUGGU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UUCAUUGA	25422
9176	AGACCACU G GCUUGGAA	7047	UUCCAAAG GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGUGGUUCU	25423
9181	ACUGGCUU G GAAGAAAG	7048	UUUUUUC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGCCAGU	25424
9182	CUGGCUUG G AAGAAGA	7049	UCUUUUUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAAGCCAG	25425
9185	GUUGGAA G AAGAACU	7050	AGUUUUUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UUCCAAAGC	25426
9189	GAAGAAA G AACUCAGG	7051	CCUGAGUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UUUUUUCC	25427
9196	AGACUCA G GAGGAGGU	7052	ACCUUCUC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UGAGUUUCU	25428
9197	GAUCUCAG G AGGAGGUG	7053	CACCUUCU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CUGAGUUC	25429
9199	ACUCAGGA G GAGGUGUC	7054	GACACUC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UCCUGAGU	25430
9200	CUCAGGAG G AGGUGUCG	7055	CGACACCU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CUCCUGAG	25431
9202	CAGGAGGA G GUGUCGAG	7056	CUCGACAC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UCCUCCUC	25432
9208	GAGGUGUC G AGGUCUUG	7057	CAAGCCCU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG GACACUCU	25433
9210	GUUGUCGA G GCUUGGG	7058	CCCAAGCC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UCGACACC	25434
9211	GUGUCGAG G GCUUGGGC	7059	GCCCAAGC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CUCGACAC	25435
9216	GAGGGCUU G GGCUCUCA	7060	UGGAGGCC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AAGCCUCU	25436
9217	AGGGCUUG G GCUCCCAA	7061	UUGGAGGC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAAGCCCU	25437
9231	CAAAAACU G GUUACAU	7062	AUGUAACC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGUUUUUG	25438
9232	AAAACUGU G GUUACAU	7063	GAUGAAC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAGUUUUU	25439
9247	UCCUUCU G AAGUUGGC	7064	GCCAACUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG ACGCAGGA	25440
9253	GUGAAGUU G GCACCCG	7065	CCGGGUGC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AACUUCAC	25441
9260	UGGCACCC G GCUUGGGG	7066	CCCCAGGC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG GGGUGCCA	25442
9265	CCCGGCCU G GGGGCAAG	7067	CUUGCCCC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGGCCGGG	25443
9266	CCGGCCUG G GGGCAAGA	7068	UCUUGCCC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAGGCCGG	25444
9267	CGGCCUGG G GCAAGAU	7069	AUCUUGCC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CCAGGCCG	25445
9268	GGCCUGGG G GCAAGAU	7070	GAUCUUGC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CCGAGGCC	25446
9273	GGGGGCAA G AUCUAUGC	7071	GCAUAGAU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UUGCCCCC	25447
9283	UCUAUGCU G AUGACACA	7072	UGUGUACU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGCAUAGA	25448
9286	AUGCUAGU G ACACAGCU	7073	AGCUUGUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AUCAGCAU	25449
9295	ACACAGCU G GCUUGGAC	7074	GUCCCAAG GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGCUGUGU	25450
9299	AGCUGGCU G GGACACCC	7075	GGGUGUCC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGCCAGCU	25451
9300	GCTUGGCU G GACACCCG	7076	CGGGUGUC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAGCCAGC	25452
9301	CUGGCGUG G ACACCCGC	7077	CGGGGUGU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CCAGCCAG	25453
9315	CGCAUCAC G AGAGCUGA	7078	UCAGUCUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG GUGAUGCG	25454
9317	CAUCACGA G AGCUGACU	7079	UAGAGCUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG UCGUGAUG	25455
9322	CGAGACCU G ACTUUGAA	7080	UUCCAAGU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AGCUCUCG	25456
9327	GCUGACUU G GAAAUGA	7081	UCAUUUUC GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG AAGUCAGC	25457
9328	CUGACUUG G AAAAUGAA	7082	UUCAUUUU GGA GCGUUUAGGC	UCCCUUCUAGGA GCGUUUAGGC	UCCGGG CAAGUCAG	25458

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9334	UGGAAAU G AAGCUAAG	7083	CUUAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUUCCA	25459
9342	GAAGCUAA G GUGCUUGA	7084	UCAAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAGCUUC	25460
9349	AGUGCUU G AGUGCUU	7085	AAGCAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAGCU	25461
9358	AGUGCUU G AUGGGGAA	7086	UUCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAGCU	25462
9361	UGCUUGAU G GGAACAU	7087	AUUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAGCA	25463
9362	GCUGAUG G GGAACAU	7088	GAUGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAAGC	25464
9363	CUUGAUG G GAACUCC	7089	CGAUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCAAG	25465
9364	UUGAUGG G AACAUCCG	7090	CCGAUUV GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCAAA	25466
9371	GGACAUC G GCGUCUUG	7091	CAAGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUGUCC	25467
9383	UCUUGCCA G GGCACUA	7092	UGAUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCAAGA	25468
9384	CUUGCCAG G GCAUCAU	7093	AUGAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGCAAG	25469
9394	CCAUCAU G AGCUCACC	7094	GGUGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUGAGG	25470
9420	AAAGUUG G AAGUGAU	7095	AUGACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACUUU	25471
9426	GUGAAGU G AUGCGCC	7096	GGCGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCAC	25472
9435	AUGCGCC G GUGGCUA	7097	UCAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCGCAU	25473
9442	CGCUGCU G AUGGAAGA	7098	UCUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGCCG	25474
9445	CUGCUGAU G GAAGAACC	7099	GGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGCAG	25475
9446	UCUGAUG G AAGAACC	7100	CGGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAGCA	25476
9449	UUGAUGAA G AACCGUCA	7101	UGACGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCCAUCA	25477
9459	ACGUCUA G GAUGUUAU	7102	AUAACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACGGU	25478
9460	CCGUCAU G AUGUUAUC	7103	GAUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAGG	25479
9473	UAUCUCA G AGAAGAU	7104	GAUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGAUUA	25480
9475	UCUCCAG G AAGAUAG	7105	CUGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGAGA	25481
9478	CCAGAGA G AUCAGAG	7106	CTUCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCUGG	25482
9483	GAAGAUCA G AGGGGAG	7107	CUCCCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCUUC	25483
9485	AGAUCAGA G GGGAGUG	7108	CACUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGAUCU	25484
9486	GAUCAGAG G GGGAGUG	7109	CCACUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUGAUC	25485
9487	AUCAGAG G GAGUGGA	7110	UCCACUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUGAU	25486
9488	UCAGAGG G GAGUGGAC	7111	GUCCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUGAU	25487
9489	CAGAGGG G AGUGGACA	7112	UGUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCUCUG	25488
9493	GGGGAGU G GACAAGU	7113	AACUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCCC	25489
9494	GGGGAGU G ACAAGUUG	7114	CAACUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCCCC	25490
9534	ACCAACU G GCCGUCCA	7115	UGGACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGGU	25491
9546	GUCCAGU G GUGAGAU	7116	AUCCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUGGAC	25492
9549	CAGCUGU G AGGAUGAU	7117	AUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAGCUG	25493
9551	GCUGUGA G GAUGAUG	7118	CCAUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACACCAGC	25494
9552	CUGGUGAG G AUGAUGA	7119	UCCAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACCAG	25495
9555	GUGAGGAU G AUGBAAG	7120	CCUUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCUCAC	25496
9558	AGGAUGAU G GAAGGGA	7121	UCCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUCCU	25497
9559	GGAUGAU G AAGGGGA	7122	UUCCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAUCC	25498

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9562	UGAUGGA G GGAAGGA	7123	UCCUCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCAUC	25499
9563	GAUGAAG G GGAAGGAG	7124	UCCUCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCCAUC	25500
9564	UGAAGG G GAAGGAGU	7125	ACUCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUCCAUC	25501
9565	UGAAGG G AAGGAGU	7126	CACUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUCCAUC	25502
9568	AAGGGAA G GAGUAGU	7127	AAUCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCCCU	25503
9569	AGGGGAG G AGUGAUG	7128	CAACACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCCCU	25504
9573	GAAGGAGU G AUUGGCC	7129	GGGCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCCU	25505
9577	GAGUGAU G GCCAGAU	7130	AUCUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUCACU	25506
9583	UUGGCCCA G AUGAUG	7131	CACACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGGCAA	25507
9586	GCCAGAU G AUGUGGAG	7132	CUCCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCGGGC	25508
9591	GAUGAU G GAGAAACU	7133	AGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCU	25509
9592	AUGAUG G AGAACUC	7134	GAGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCU	25510
9594	GAUGUGA G AAACUCAC	7135	GUGAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACU	25511
9607	UCACAAA G GGAAGGA	7136	UCCUCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGUGA	25512
9608	CACAAAG G GAAAGGAC	7137	GUCCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUUG	25513
9609	ACHAAGG G AAGGACC	7138	GUCCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUUG	25514
9613	AAGGGAA G GACCCAA	7139	UUUGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCU	25515
9614	AGGGAAAG G ACCAAAG	7140	CUUUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCCU	25516
9626	CAAAUGA G GACCUGC	7141	GCCAGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACU	25517
9627	AAAGUC G ACCUGGU	7142	AGCCAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGAU	25518
9632	CAGGACU G GUGUUG	7143	CAACAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUCCU	25519
9640	GCUGUUD G AGAUGGG	7144	CCAUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACAGC	25520
9642	CUUUUGA G AAUGGGG	7145	UCCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAACAG	25521
9646	UGAGAAU G GGAAGAA	7146	UUCUCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCUAA	25522
9647	UGAGAAU G GGAAGAA	7147	UUUCUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUUCU	25523
9648	GAGAAUG G GAAAGAA	7148	CUUCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAUCU	25524
9649	AGAAUGG G AAGAAAG	7149	UCUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAUCU	25525
9652	AUGGGAA G AAAGACU	7150	GAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCCU	25526
9656	GGAAGAA G ACUCAGC	7151	GGCUGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCUCC	25527
9669	AGCCGCAU G GUGUCAG	7152	CUGACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGCGCU	25528
9679	CUUCAGU G GAGUAGC	7153	GUCAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUGACAG	25529
9680	UGUCAGU G AGAUGACU	7154	AGUCAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUGAC	25530
9682	UCAGUGA G AUGACUGU	7155	ACAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACUG	25531
9685	GUGAGAU G ACUGUGU	7156	CACACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAC	25532
9693	GAGUGU G GUAAGCC	7157	GGCUUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACACAGC	25533
9705	AAGCCCU G GACGACG	7158	CGAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGGCU	25534
9706	AGCCCCU G ACAGUCG	7159	CGAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGGCU	25535
9709	CCUGGAC G AUGGCUU	7160	AAAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUCCAGG	25536
9753	AUGUCAA G GUUGCAA	7161	UUGGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGACU	25537
9763	UUGGCAA G ACAUCCAA	7162	UUGGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGCAA	25538

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9772	ACAUCAA G AGUGAAA	7163	UUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGAUGU	25539
9776	CCAAGAGU G GAACCGU	7164	ACGGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUGG	25540
9777	CAAGAGU G AAACCGUC	7165	GAAGUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCUUG	25541
9790	CGUACAU G AUGGUUU	7166	AUACCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUUACG	25542
9791	GUCACUG G AUGGUUU	7167	CAUACCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUUAC	25543
9794	AACUGAU G GUUGAUU	7168	AAUACAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAUC	25544
9799	GAUGGUU G AUUGGCAG	7169	CUGCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAUC	25545
9803	GUUGAUU G GCAGCAG	7170	CUUGCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAUC	25546
9810	UGGACGA G GUUCCAUU	7171	AUUGAAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUGCCA	25547
9838	AUUUCACU G AUUGAUC	7172	GAUCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAAAU	25548
9843	ACUGAAU G AUCAUGAA	7173	UUCAUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCAGU	25549
9849	UUGAAU G AAAGUUG	7174	CCAUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUCAA	25550
9853	UCAUGAA G AUGGAAG	7175	UUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCAUGA	25551
9856	UGAAGAU G GAAGAACA	7176	UGUUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUUA	25552
9857	GAAGAUG G AAGAACAC	7177	GUUUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUC	25553
9860	AGAUGAA G AACACUGG	7178	CCAGUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAUCU	25554
9867	AGAACAU G GUUGUUC	7179	GGAAACC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUUCU	25555
9870	ACACUGGU G GUUCCAU	7180	CAUGAAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAGUGU	25556
9881	UCCAGCC G AGGACAGG	7181	CCUGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAUGGA	25557
9883	CAUGCCG G GACAGAU	7182	AUCCUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGGCAUG	25558
9884	AUGCCAG G ACAGGAU	7183	CAUCCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGGCAU	25559
9888	CGAGACA G GAUGAAU	7184	AAUUAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCCUUG	25560
9889	GAGACAG G AUGAAUUG	7185	CAAUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUCCUC	25561
9892	GACAGGAU G AAUUGGUA	7186	UACCAUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCUGUC	25562
9897	GAUGAAU G GUAGGCAG	7187	CUGCCUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCUUC	25563
9901	AAUUGGUA G GCAGAGCU	7188	AGCUCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UACCAUUC	25564
9905	GUAGGCA G AGCUCGCA	7189	UGCGAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUACC	25565
9922	UAUCCCA G GGCAGGA	7190	UCCGGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAGAU	25566
9923	AUCCAG G GGCAGAU	7191	AUCCGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAGAU	25567
9924	UCCAGG G GCAGAU	7192	CAUCCGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAGAU	25568
9928	CAGGGCC G AUGGAAC	7193	GUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAGAU	25569
9929	AGGGCCG G AUGGAAC	7194	GUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAGAU	25570
9932	GGCGGAU G GAAGUCC	7195	GGAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCGGCC	25571
9933	GGCGGAU G AAGUCCG	7196	GGAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCGGC	25572
9943	ACUCCGC G ACACUGCU	7197	AGCAGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAGAU	25573
9957	GUUUCU G ACACUGCU	7198	AGCAGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAGAU	25574
9975	UAUCCCA G AUGGCU	7199	AGCAGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAGAU	25575
9980	CCAGAUU G GCUUCUUC	7200	GAAGCAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCUGG	25576
10001	CUUCCACA G AAGAGACC	7201	GUUUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGAG	25577
10004	CCACAGAA G AGACCGC	7202	GCAGGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGUGG	25578

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10006	ACAGAGA G ACCUGGG	7203	CCGAGGU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCUUCUGU	25579
10013	AGACCGC G GCUCAUGG	7204	CAUAGC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG GAGGUUCU	25580
10020	CGGCUAU G GCCAACGC	7205	GCGUUGC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUGAGCG	25581
10050	GUCCUGU G AAUUGGU	7206	ACCAAUU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG ACAGGAC	25582
10055	UGGAAU G GGUCCUA	7207	UAGGACC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AAUUCACA	25583
10056	GUAAUUG G GUCCUAC	7208	GUAGGAC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AAUUCAC	25584
10066	UCCUACC G GAAGAACC	7209	GUUUCUUC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG GGUAGGA	25585
10067	CCCUACG G AGAACCA	7210	UGGUUUU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CGUAGG	25586
10070	UACCGAA G AACACGU	7211	ACGUUUU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UUCGGUA	25587
10079	AACACGU G GUCCAUCC	7212	GGUAGAC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG ACUGGUU	25588
10093	UCCAUCA G GAGGAGG	7213	CUCUCCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UGCAUGGA	25589
10094	CCAUGAG G AGGAGAU	7214	ACUCUCCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CUGCAUGG	25590
10096	AUGCAGA G GAGAGUG	7215	CCACUCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCCUGCAU	25591
10097	UGCAGGAG G AGAGUGGA	7216	UCCACUCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CUCCUGCA	25592
10099	CAGGAGA G AGUGGAUG	7217	CAUCCAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCCUCCUG	25593
10103	AGGAGAG G GAUAGCHA	7218	UUGCAUC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG ACUCUCCU	25594
10104	GGAGAGU G AUGACAC	7219	GUUGUCAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CACUCCU	25595
10107	GAGUGAU G AACACAGA	7220	UCUGUUU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUCCACUC	25596
10114	UGACACA G AGGACAUG	7221	CAUGUCCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UGUUGUCA	25597
10116	ACACAGA G GACAUUU	7222	AACAUGC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCUGUUU	25598
10117	CAACAGAG G ACAUGUG	7223	CAACAUU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CACUCCU	25599
10125	GACAUUU G GAGGUCUG	7224	CAGACUC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUCCACUC	25600
10126	ACAUGUG G AGGUCUG	7225	CCAGACU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CAACAUU	25601
10128	AUGUGGA G GUUCGAA	7226	UCCAGAC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCCACAU	25602
10133	GGAGGUCU G GAACCGUG	7227	CACGUCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AGACUCC	25603
10134	GAGGUCUG G AACCGUGU	7228	ACAGGUU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CAGACUC	25604
10145	CGUGUUU G GAUAGAG	7229	CCUUAUC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AACACCG	25605
10146	CGUGUUG G AUAGAGGA	7230	UCCUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CAACACG	25606
10150	UUUGGAU G AGGAGAU	7231	AUUCUCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UAUCCAA	25607
10152	UGGAUAGA G GAGAAUGA	7232	UCAUUCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCUAUCCA	25608
10153	GAUAGAG G AGAAUGAA	7233	UAUUAUCU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CUUAUCC	25609
10155	AUAGAGGA G AAUGAAUG	7234	CAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG UCCUUAU	25610
10159	AGGAGAU G AAUGGAUG	7235	CAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUUCUCCU	25611
10163	GAUGAAU G GAUGGAAG	7236	CUUUAUC GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUUAUUC	25612
10164	AAUGAAUG G AUGGAAGA	7237	UUUAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CAUUAU	25613
10167	GAUGGAU G GAAGACAA	7238	UUUAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUUAUUC	25614
10168	AAUGGAUG G AAGACAAA	7239	UUUAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUUAUUC	25615
10171	GGAUGGAA G ACAAAACC	7240	UUUAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG AUUAUUC	25616
10185	ACCCAGU G GAGAAUG	7241	UUUAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG ACUGGUGU	25617
10186	CCCCAGU G AGAAUGG	7242	UUUAUUAU GGA GCGGUUAGGC UCCUUCAGGA GCGGUUAGGC UCCGG CACUGGUG	25618

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10188	CCAGUGGA G AAUUGAG	7243	CUCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUGG	25619
10193	GGAGAAU G GAGUGACG	7244	CGUCACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUUCC	25620
10194	GAGAAUG G AGUGACGU	7245	ACGUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUUCUC	25621
10198	AAUGGAGU G ACGUCCA	7246	UGGUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCAUU	25622
10213	CAUAUUA G GAAACGA	7247	UCGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAUAUG	25623
10214	AUAUACG G AAACGAG	7248	UCGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAAUUA	25624
10220	AGGAAAC G AGAGGACA	7249	UGUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUUCCU	25625
10222	GAAACGA G AGGACAUC	7250	GAUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUUUUC	25626
10224	AAACGAG G GACAUCUG	7251	CAGAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGUUU	25627
10225	AACGAGG G ACAUCUGG	7252	CCAGAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCGUU	25628
10232	GGACAUCU G GUGUGGCA	7253	UGCCACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUGUCC	25629
10237	UCUGGUGU G GCAGCCUG	7254	CAGGCUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAGA	25630
10245	GGCAGCUU G AUUGGCAC	7255	GUGCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUGGCC	25631
10249	GCCUGAUU G GCACRAGA	7256	UCUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAGGC	25632
10256	UGGCACAA G AGCCCGAG	7257	CUCGGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGCCA	25633
10262	AAGAGGCC G AGCCACGU	7258	ACGUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCUCUU	25634
10271	AGCCACGU G GGCAGAAA	7259	UUUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUGGCU	25635
10272	GCCACGUG G GCAGARAA	7260	UUUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGGCC	25636
10276	CGUGGCA G AAACAUC	7261	GAUGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCACG	25637
10287	AACAUCA G GUGGCUAU	7262	AUAGCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUGUU	25638
10290	AUCCAGGU G GCUAUCHA	7263	UUGAUAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUGAUU	25639
10307	CCAUGCA G AGCAUCA	7264	UGAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUUGG	25640
10318	CAAUCAUC G GAGAUGAG	7265	CUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGAUUG	25641
10319	AAUCAUCG G AGAUGAGA	7266	UCUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUGAUU	25642
10321	UCAUCGGA G AUGAGAAG	7267	CUUCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAUGA	25643
10324	UCGGAGAU G AGAAGUAU	7268	AUAUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCCGA	25644
10326	GGAGAUGA G AAGUAUGU	7269	ACAUACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCUCC	25645
10335	AAGUAUGU G GAUUAACU	7270	AUGUAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUACUU	25646
10336	AGUAUGUG G AUUACAUG	7271	CAUGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUAUCU	25647
10344	GAUUACAA G AGUUCACU	7272	AGUGAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUAAUC	25648
10356	UCACUAAA G AGAUAUGA	7273	UCAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUGUA	25649
10358	ACUAAAGA G AUAUGAAG	7274	CUUCAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUAUGU	25650
10363	AGAGAUAU G AGACACA	7275	UGUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUCUCU	25651
10366	GAUAUGAA G ACACAACU	7276	AGUUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUAUC	25652
10377	ACAACUUU G GUUGAGGA	7277	UCCUCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGUUGU	25653
10381	CUUUGGUU G AGGACACA	7278	UGUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAAG	25654
10383	UGGUUGA G GACACAGU	7279	ACUGUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACCAA	25655
10384	UUGUUGA G ACACAGUA	7280	UACUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACCCA	25656
10398	GUACUGUA G AUAUUUAA	7281	UUAUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACAGUAC	25657
10420	UGUAAUA G ACAUAUA	7282	UAUAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUAUACA	25658

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10467	UAUUUAGU G GUGUUAGU	7283	ACUAAACG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUAAUUA	25659
10488	AUAGUUAA G AAAUUUUU	7284	AAAUUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUAACUUA	25660
10497	AAAUUUUU G AGGAGAAA	7285	UUUUCUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAAUUUU	25661
10499	AAUUUUGA G GAGAAAGU	7286	UUUUUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAAAAUU	25662
10500	AUUUUGAG G AGAAAGUC	7287	GACUUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAAAAUU	25663
10502	UUUGAGGA G AAAGUCAG	7288	CUGACUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUCAA	25664
10510	GAAAGUCA G GCCGGGAA	7289	UUCCCGGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGACUUUC	25665
10514	GUCAGGCC G GGAAGUUC	7290	GAAUUUCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGCUUGAC	25666
10515	UCAGGCCG G GAAGUUC	7291	GGAUUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGGCUUGA	25667
10516	CAGGCCCG G AAGUUUCC	7292	GGGAUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCGGCCUG	25668
10531	CGCCACCC G AAGUUUGA	7293	UUAUUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGUUGCCG	25669
10532	CGCCACCG G AAGUUUGA	7294	UUAUUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGUUGCCG	25670
10538	CGGAAGUU G AGUAGACG	7295	CGUCUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACUUCCG	25671
10543	GUUGAGUA G ACGUGUCU	7296	AGCACCGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UACUCAA	25672
10546	GAGUAGAC G GUGCUGCC	7297	GGCAGCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUCUACUC	25673
10558	UUGCCUGC G ACUCAACC	7298	GGUUGAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGGCAG	25674
10570	CAACCCCA G GAGGACUG	7299	CAGUCCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGGGUUG	25675
10571	AACCCCA G AGGACUGG	7300	CAGUCCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUGGGGUU	25676
10573	CCCCAGGA G GACUGGGU	7301	ACCCAGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUUGGG	25677
10727	CCCCAGGA G GACUGGGU	7301	ACCCAGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUUGGG	25677
10574	CCGAGGAG G ACUGGGUG	7302	CACCCAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCUGGG	25678
10578	GGAGGACU G GUGGAACA	7303	UGUUCACC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUCCUCC	25679
10579	GAGGACUG G GUGAACA	7304	UUGUUCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGUCCUC	25680
10582	GACUGGGU G AACAAAGC	7305	GUUUUUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCCAGUC	25681
10594	AAAGCCGC G AAGUGAUC	7306	GAUCACUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCGGCUUU	25682
10599	CGGAAAGU G AUCCAUGU	7307	ACAUGGAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUUCGCG	25683
10617	AGCCCUCA G AACCGUCU	7308	AGACGGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGAGGGCU	25684
10627	ACGUCUC G GAAGGAGG	7309	CUUCUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAGAGGCU	25685
10628	CGUCUCG G AAGGAGGA	7310	UUCUCCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGAGACCG	25686
10631	UCUCGGAA G GAGGACCC	7311	GGGUCCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCGAGGA	25687
10632	CUCGGAAG G AGGACCCC	7312	GGGUCCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCGAG	25688
10634	CGGAAGGA G GACCCAC	7313	GUGGGUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUUCUG	25689
10635	GGAAGGAG G ACCCCACA	7314	UGUGGGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCUUC	25690
10670	CAAUGUCA G ACCACGCU	7315	AGCGUGGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGACAUUG	25691
10681	CACGUCAC G GCGUGCUA	7316	UAGCACGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUAGCGUG	25692
10696	UACUUCG G GAGAGUC	7317	GCACUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGAGUA	25693
10697	ACUCUGCG G AGAGUGCA	7318	UGCACUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCGAGAGU	25694
10699	UCUGCGGA G AGUGCAGU	7319	ACUGCACU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCGAGGA	25695
10712	CAGUCUGC G AUAGUGCC	7320	GGCACUUA GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGACUG	25696
10724	GUGCCCCA G GAGGACUG	7321	CAGUCCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGGCGAC	25697

Table VII

10725	UGCCCCAG G AGGACUGG	7322	CCAGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGGGCA	25698
10728	CCCAGGAG G ACUGGGUU	7323	AACCCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUGGG	25699
10732	GGAGGACU G GUUUAACA	7324	UGUUAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCUCC	25700
10733	GAGGACUG G GUUAACAA	7325	UGUUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCUC	25701
10743	UUAACAA G GCAAAACA	7326	GCUUAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUA	25702
10763	CCCCAGC G GCCUAGC	7327	GCUUAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUGGG	25703
10775	CUAGCCCC G GUUAUGU	7328	ACCAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGGCUAG	25704
10781	CCGGUAU G GUGUUAAC	7329	GUUAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUACCGG	25705
10792	GUUAACCA G GCGAAAG	7330	CUUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUAAC	25706
10793	UUAACAG G GCGAAAG	7331	CUUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUAAC	25707
10796	ACCAGGC G AAAGGACU	7332	AGUCCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCCUUGU	25708
10800	GGCGAAA G GACUAGAG	7333	CUUAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGCCC	25709
10801	GGCGAAAG G ACUAGAGG	7334	CCUUAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCGCC	25710
10806	AAGGACUA G AGGUUAGA	7335	UCUUAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUCCUU	25711
10808	GGACUAGA G GUUAGAGG	7336	CCUUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAGUCC	25712
10813	AGAGGUUA G AGGAGACC	7337	GGUCUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACCUU	25713
10815	AGGUUAGA G GAGACCCC	7338	GGGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACCUU	25714
10816	GUUAGAG G AGACCCCG	7339	CGGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCACUU	25715
10818	UUAAGGA G ACCCCCG	7340	CGGGGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCACUU	25716
10826	GACCCCG G GUUUAAG	7341	CUUUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACCUU	25717
10840	AAGUGCAC G GCCCAGCC	7342	GGCUGGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCACUU	25718
10850	CCCAGCCU G ACUGAAGC	7343	GCUUAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUUGG	25719
10854	CCUGACU G AAGCUGUA	7344	UACAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUUGG	25720
10863	AAGCUGUA G GUCAGGGG	7345	CCCUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACAGCUU	25721
10868	GUAGGUCA G GGGAAAGG	7346	UCCUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACCUUAC	25722
10869	UAGGUAC G GGAAGGAC	7347	GUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACCUA	25723
10870	AGGUCAG G GAGGACU	7348	AGUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACCU	25724
10871	GGUCAGGG G AAGGACUA	7349	UAGUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACCU	25725
10874	CAGGGGA G GACUAGAG	7350	CUUAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCCCU	25726
10875	AGGGNAG G ACUAGAGG	7351	CCUUAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCCCU	25727
10880	AAGGACUA G AGGUUAGU	7352	ACUUAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUCCUU	25728
10882	GGACUAGA G GUUAGUGG	7353	CCCUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAGUCC	25729
10889	AGGUUAGU G GAGACCCC	7354	GGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAACU	25730
10890	GGUUAUG G AGACCCCG	7355	CGGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUAACC	25731
10892	UUAUGGA G ACCCCUG	7356	CACGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUAA	25732
10931	AGCAUAU G ACACCCUG	7357	CCAGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAUGCU	25733
10938	UGACACCU G GGAUAGAC	7358	GCUUAUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUGUCA	25734
10939	GACACCU G GAUAGACU	7359	AGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUGUC	25735
10940	ACACCCUG G AUAGACUA	7360	UAGUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUGUC	25736
10944	CUGGGUA G ACUAGGAG	7361	CUCCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCCGAG	25737

Table VII

10949	AUAGACUA G GAGAUUU	7362	AAGAUCUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UAGUCUUAU	25738
10950	UAGACUAG G AGAUUUUC	7363	GAAGAUUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUAGUCUA	25739
10952	GACUAGGA G AUCUUCUG	7364	CAGAGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCCUAGUC	25740
10981	AGCCACAC G GCACAGUG	7365	CACUGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUGUGGCU	25741
10994	AGUGCGCC G ACAUUGU	7366	ACCAUUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCACU	25742
11000	CCGACAAU G GUGGCUUG	7367	CCAGCCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUUUGUGG	25743
11003	ACAUUGU G GCUUGUGG	7368	CCACCAGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAUUGU	25744
11007	UGGUGGCU G GUGGUGCG	7369	CGCACAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCCACCA	25745
11010	UGGUGGCU G GUGCGAGA	7370	UCUCGCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAGCCA	25746
11015	GGUGGUGC G AGAACACA	7371	UGUGUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCACCACC	25747
11017	UGGUGCGA G AACACAGG	7372	CCUGUGUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGCACCA	25748

Input Sequence = AF196835. Cut Site = G/.

Arm Length = 8. Core Sequence = GGAGGAACUCC CU UCAGGACAUUGUCCGGG
AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VIII

Table VIII: WNV minus strand Hammerhead Ribozyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rx Seq ID
12	11018	UCCUGUGU U CUCGCACC	7373	GGUGCGAG CUGAUGAG GCCGUUAGGC CGAA ACACAGGA	25749
13	11017	CCUGUGUU C UCGCACCA	7374	UGGUGCGA CUGAUGAG GCCGUUAGGC CGAA AACACAGG	25750
15	11015	UGUGUUCU C GCACCACC	7375	GGUGGUGC CUGAUGAG GCCGUUAGGC CGAA AGAACACA	25751
33	10997	GCCACCAU U GUCGCGC	7376	GCGCCGAC CUGAUGAG GCCGUUAGGC CGAA AUGGUGGC	25752
36	10994	ACCAUUGU C GGCGCACU	7377	AGUGCGCC CUGAUGAG GCCGUUAGGC CGAA ACAUUGGU	25753
61	10969	UGGCGUGU U GUGCAGAG	7378	CUCUGCAC CUGAUGAG GCCGUUAGGC CGAA ACCAGCCA	25754
78	10952	CAGAAGAU C UCCUAGUC	7379	GACUAGGA CUGAUGAG GCCGUUAGGC CGAA AUCUUCUG	25755
80	10950	GAAGAUCU C CUAGUCUA	7380	UAGACUAG CUGAUGAG GCCGUUAGGC CGAA AGAUCUUC	25756
83	10947	GAUCUCCU A GUCUAUCC	7381	GGAUAGAC CUGAUGAG GCCGUUAGGC CGAA AGAGAGUC	25757
86	10944	CUCCUAGU C UAUCCAG	7382	CUGGGAUA CUGAUGAG GCCGUUAGGC CGAA ACUAGGAG	25758
88	10942	CCUAGUCU A UCCCAGGU	7383	ACCUGGGA CUGAUGAG GCCGUUAGGC CGAA AGACUAGG	25759
90	10940	UAGUCUUA C CCAGGUGU	7384	ACACCUGG CUGAUGAG GCCGUUAGGC CGAA AUAGACUA	25760
99	10931	CCAGGUGU C AAUAUGCU	7385	AGCAUAUU CUGAUGAG GCCGUUAGGC CGAA ACACCUGG	25761
103	10927	GUGUCAAU A UGCUGUUU	7386	AAACAGCA CUGAUGAG GCCGUUAGGC CGAA AUUGACAC	25762
110	10920	UAUGCUGU U UUGUUGUG	7387	CACAACAA CUGAUGAG GCCGUUAGGC CGAA ACAGCAUA	25763
111	10919	AUGCUGUU U UGUUGUGG	7388	CCACAACA CUGAUGAG GCCGUUAGGC CGAA AACAGCAU	25764
112	10918	UGCUGUUU U GUUGUGGU	7389	ACCACAAC CUGAUGAG GCCGUUAGGC CGAA AAACAGCA	25765
115	10915	UGUUUUGU U GUGGUGUU	7390	AACACCAC CUGAUGAG GCCGUUAGGC CGAA ACAAACA	25766
123	10907	UGUGGUGU U UUGUGGCA	7391	UGCCACAA CUGAUGAG GCCGUUAGGC CGAA ACACCACA	25767
124	10906	GUGGUGUU U UGUGGCAC	7392	GUGCCACA CUGAUGAG GCCGUUAGGC CGAA AACACCAC	25768
125	10905	UGGUGUUU U GUGGCACG	7393	CGUGCCAC CUGAUGAG GCCGUUAGGC CGAA AAACACCA	25769
138	10892	CACGGGGU C UCCACUAA	7394	UUAGUGGA CUGAUGAG GCCGUUAGGC CGAA ACCCCGUG	25770
140	10890	CGGGGUCU C CACUAACC	7395	GGUUAUGU CUGAUGAG GCCGUUAGGC CGAA AGACCCCG	25771
145	10885	UCUCCACU A ACCUCUAG	7396	CUAGAGGU CUGAUGAG GCCGUUAGGC CGAA AGUGGAGA	25772
150	10880	ACUAACCU C UAGUCCUU	7397	AAGGACUA CUGAUGAG GCCGUUAGGC CGAA AGGUUAGU	25773
152	10878	UAACCUCU A GUCCUUC	7398	GGAAGGAC CUGAUGAG GCCGUUAGGC CGAA AGAGGUUA	25774
155	10875	CCUCUAGU C CUUCCCU	7399	AGGGGAAG CUGAUGAG GCCGUUAGGC CGAA ACUAGAGG	25775
158	10872	CUAGUCCU U CCCUGAC	7400	GUCAGGGG CUGAUGAG GCCGUUAGGC CGAA AGGACUAG	25776
159	10871	UAGUCCUU C CCCUGACC	7401	GGUCAGGG CUGAUGAG GCCGUUAGGC CGAA AAGGACUA	25777
169	10861	CCUGACCU A CAGCUUCA	7402	UGAAGCUG CUGAUGAG GCCGUUAGGC CGAA AGGUCAGG	25778
175	10855	CUAGACU U CAGUCAGG	7403	CCUAGAGU CUGAUGAG GCCGUUAGGC CGAA AGUGGUA	25779
176	10854	UACAGCUU C AGUCAGGC	7404	GCCUGACU CUGAUGAG GCCGUUAGGC CGAA AAGCUGUA	25780
180	10850	GCUCUAGU C AGGCUGGG	7405	CCCAGCCU CUGAUGAG GCCGUUAGGC CGAA ACUGAAGC	25781
198	10832	CGUGCACU U UAAACCGC	7406	GCGGUUUA CUGAUGAG GCCGUUAGGC CGAA AGUGCACG	25782
199	10831	GUGCACUU U AAACCGCG	7407	CGCGGUUU CUGAUGAG GCCGUUAGGC CGAA AAGUGCAC	25783
200	10830	UGCACUUU A AACC CGG	7408	CCGCGGUU CUGAUGAG GCCGUUAGGC CGAA AAAGUGCA	25784
212	10818	CGCGGGGU C UCCUCUAA	7409	UUAGAGGA CUGAUGAG GCCGUUAGGC CGAA ACCCCGCG	25785
214	10816	CGGGGUCU C CUCUAACC	7410	GGUUAAGU CUGAUGAG GCCGUUAGGC CGAA AGACCCCG	25786
217	10813	GGUCUCCU C UAACCUCU	7411	AGAGGUUA CUGAUGAG GCCGUUAGGC CGAA AGGAGACC	25787
219	10811	UCUCCUCU A ACCUCUAG	7412	CUAGAGGU CUGAUGAG GCCGUUAGGC CGAA AGAGGAGA	25788
224	10806	UCUAACCU C UAGUCCUU	7413	AAGGACUA CUGAUGAG GCCGUUAGGC CGAA AGGUUAGA	25789
226	10804	UAACCUCU A GUCCUUUC	7414	GAAAGGAC CUGAUGAG GCCGUUAGGC CGAA AGAGGUUA	25790
229	10801	CCUCUAGU C CUUUCGCC	7415	GGCGAAAG CUGAUGAG GCCGUUAGGC CGAA ACUAGAGG	25791
232	10798	CUAGUCCU U UCGCCUG	7416	CAGGGCGA CUGAUGAG GCCGUUAGGC CGAA AGGACUAG	25792
233	10797	UAGUCCUU U CGCCUGG	7417	CCAGGGCG CUGAUGAG GCCGUUAGGC CGAA AAGGACUA	25793
234	10796	AGUCCUUU C GCCUGGU	7418	ACCAGGGC CUGAUGAG GCCGUUAGGC CGAA AAAGGACU	25794
243	10787	GCCCUUGU U AACACCAU	7419	AUGGUGUU CUGAUGAG GCCGUUAGGC CGAA AACAGGCG	25795
244	10786	CCCUUGUU A ACACCAU	7420	AAUGGUGU CUGAUGAG GCCGUUAGGC CGAA AACCAGGG	25796
252	10778	AACACCAU U ACCGGGGC	7421	GCCCCGGU CUGAUGAG GCCGUUAGGC CGAA AUGGUGUU	25797
253	10777	ACACCAU A CCGGGGCU	7422	AGCCCCGG CUGAUGAG GCCGUUAGGC CGAA AAUGGUGU	25798
262	10768	CCGGGGCU A GGGCCGCG	7423	CGCGGGCC CUGAUGAG GCCGUUAGGC CGAA AGCCCCGG	25799
279	10751	UGGGGGCU U GGUUGCC	7424	GGCAAACC CUGAUGAG GCCGUUAGGC CGAA ACGCCCCA	25800
283	10747	GCGUUGGU U UGCCUUUG	7425	CAAAGGCA CUGAUGAG GCCGUUAGGC CGAA ACCAACCG	25801
284	10746	CGUUGGUU U GCCUUUGU	7426	ACAAAGGC CUGAUGAG GCCGUUAGGC CGAA AACCAACG	25802
289	10741	GUUUGCCU U UGUUAACC	7427	GGUUAACA CUGAUGAG GCCGUUAGGC CGAA AGGCAAAC	25803
290	10740	UUUGCCUU U GUUAACCC	7428	GGGUUAAC CUGAUGAG GCCGUUAGGC CGAA AAGGCAAA	25804
293	10737	GCCUUUGU U AACCCAGU	7429	ACUGGGUU CUGAUGAG GCCGUUAGGC CGAA ACAAAGGC	25805

Table VIII

294	10736	CCUUGUUU A ACCCAGUC	7430	GACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGG	25806
302	10728	AACCCAGU C CUCCUGGG	7431	CCCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUU	25807
305	10725	CCAGUCCU C CUGGGGCA	7432	UGCCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	25808
316	10714	GGGGCACU A UCGCAGAC	7433	GUCUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCCC	25809
318	10712	GGCACUAU C GCAGACUG	7434	CAGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCC	25810
331	10699	ACUGCACU C UCCGCAGA	7435	UCUGCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGU	25811
333	10697	UGCACUCU C CGCAGAGU	7436	ACUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGCA	25812
342	10688	CGCAGAGU A GCACGCCG	7437	CGGCGUGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGCG	25813
352	10678	CACGCCGU A GCGUGGUC	7438	GACCACGC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCGUG	25814
360	10670	AGCGUGGU C UGACAUUG	7439	CAAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCACGCU	25815
367	10663	UCUGACAU U GGGCUUUG	7440	CAAAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAGA	25816
373	10657	AUUGGGCU U UGAAGUUA	7441	UAACUUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAAU	25817
374	10656	UUGGGCUU U GAAGUUAC	7442	GUAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCAA	25818
380	10650	UUUGAAGU U ACAACAUG	7443	CAUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCAAA	25819
381	10649	UUGAAGUU A CAACAUGU	7444	ACAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUUCAA	25820
395	10635	UGUGGGGU C CUCCUUC	7445	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCCACA	25821
398	10632	GGGUGCCU C CUUCCGAG	7446	CUCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCC	25822
401	10629	GUCUCCU U CCGAGACG	7447	CGUCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAC	25823
402	10628	UCCUCCU C CGAGACGG	7448	CCGUCUCG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGA	25824
412	10618	GAGACGGU U CUGAGGGC	7449	GCCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCUC	25825
413	10617	AGACGGUU C UGAGGGCU	7450	AGCCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCU	25826
422	10608	UGAGGGCU U ACAUGGAU	7451	AUCCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCUCA	25827
423	10607	GAGGGCUU A CAUGGAUC	7452	GAUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUCU	25828
431	10599	ACAUGGAU C ACUUCGCG	7453	CGCGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUGU	25829
435	10595	GGAUACAU U CGCGGCUU	7454	AAGCCGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUCC	25830
436	10594	GAUCACUU C GCGGCUUU	7455	AAAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUC	25831
443	10587	UCGCGGCU U UGUUCACC	7456	GGUGAACA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCGA	25832
444	10586	CGCGGCUU U GUUCACCC	7457	GGGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCGCG	25833
447	10583	GGCUUUGU U CACCCAGU	7458	ACUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGCC	25834
448	10582	GCUUGUUU C ACCCAGUC	7459	GACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGC	25835
456	10574	CACCCAGU C CUCCUGGG	7460	CCCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUG	25836
459	10571	CCAGUCCU C CUGGGGUU	7461	AACCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	25837
467	10563	CCUGGGGU U GAGUCGCA	7462	UGCGACUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAGG	25838
472	10558	GGUUGAGU C GCAGGCAG	7463	CUGCCUGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAACC	25839
487	10543	AGCACCGU C UACUCAAC	7464	GUUGAGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGCU	25840
489	10541	CACCGUCU A CUCAACUU	7465	AAGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACGGUG	25841
492	10538	CGUCUACU C AACUCCG	7466	CGGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUAGACG	25842
497	10533	ACUCAACU U CCGUGGGC	7467	GCCACCGG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAGU	25843
498	10532	CUCAACUU C CGGUGGCG	7468	CGCCACCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGAG	25844
513	10517	CGGGAACU U CCCGGCCU	7469	AGGCCGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCG	25845
514	10516	GGGAACUU C CCGGCCUG	7470	CAGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCG	25846
526	10504	GCCUGACU U UCUCUCA	7471	UGAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGGC	25847
527	10503	CCUGACUU U CUCCUCAA	7472	UUGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGG	25848
528	10502	CUGACUUU C UCCUCAA	7473	UUUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCAG	25849
530	10500	GACUUUCU C CUCAAAAU	7474	AUUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUC	25850
533	10497	UUUCUCCU C AAAAUUUU	7475	AAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAA	25851
539	10491	CUCAAAAU U UUCUUAAC	7476	GUUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGAG	25852
540	10490	UCAAAAUU U UCUUAACU	7477	AGUUAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUGA	25853
541	10489	CAAAAUUU U CUUAACUA	7478	UAGUUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUG	25854
542	10488	AAAAUUUU C UUAACUAU	7479	AUAGUUA CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUU	25855
544	10486	AAUUUUCU U AACUAUUU	7480	AAAUAGUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAUU	25856
545	10485	AUUUUUCU A ACUAUUUA	7481	UAAUAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAU	25857
549	10481	UCUUAACU A UUUACACU	7482	AGUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAAGA	25858
551	10479	UUAACUAU U UACACUAA	7483	UUAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUAGUUA	25859
552	10478	UAACUAUU U ACACUAA	7484	GUUAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUUA	25860
553	10477	AACUAUUU A CACUAACA	7485	UGUUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAUGUU	25861
558	10472	UUUACACU A ACACCACU	7486	AGUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUAAA	25862
567	10463	ACACCACU A AAUACUAC	7487	GUAGUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUGU	25863
571	10459	CACUAAAU A CUACUAUA	7488	UAUAGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUAGUG	25864
574	10456	UAAAUACU A CUAAUAAA	7489	UUUUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUUA	25865
577	10453	AUACUACU A UAAACUA	7490	UAGUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUUA	25866
579	10451	ACUACUAU A AAACUACA	7491	UGUAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAGU	25867

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585	10445	AUAAAACU A CACUUUA	7492	UAAAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUUAU	25868
590	10440	ACUACACU U UUAUGCAU	7493	AUGCAUAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGUAGU	25869
591	10439	CUACACUU U UUAUGCAU	7494	UAUGCAUA CUGAUGAG	GCCGUUAGGC	CGAA AAGUGUAG	25870
592	10438	UACACUUU U AUGCAUAC	7495	GUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGUA	25871
593	10437	ACACUUUU A UGCAUACU	7496	AGUAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUGU	25872
599	10431	UUAUGCAU A CUUAUAUU	7497	AAUAUAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAA	25873
602	10428	UGCAUACU U AUAUUGUC	7498	GACAAUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUAUGCA	25874
603	10427	GCAUACUU A UAUUGUCU	7499	AGACAAUA CUGAUGAG	GCCGUUAGGC	CGAA AAGUAUGC	25875
605	10425	AUACUUUA U UUGUCUAU	7500	AUAGACAA CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAU	25876
607	10423	ACUUAUAU U GUCUAUUU	7501	AAAUAGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUAUAAGU	25877
610	10420	UAUAUUGU C UAUUUACA	7502	UGUAAUAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUAUA	25878
612	10418	UAUUGUCU A UUAACAAU	7503	AUUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUA	25879
614	10416	UUGUCUAU U UACAUAUG	7504	CAAUUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUAGACAA	25880
615	10415	UGUCUAUU U ACAAUUGA	7505	UCAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGACA	25881
616	10414	GUCUAUUU A CAAUUGAU	7506	AUCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGAC	25882
621	10409	UUUACAAU U GAUUAUUU	7507	AUUUAUUC CUGAUGAG	GCCGUUAGGC	CGAA AUUGUAAA	25883
625	10405	CAAUUGAU U AAUAUAUC	7508	AGAUAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUUG	25884
626	10404	AAUUGAUU A AAUAUCUA	7509	UAGAUAUU CUGAUGAG	GCCGUUAGGC	CGAA AAUCAAU	25885
630	10400	GAUUAUUU A UCUACAGU	7510	ACUGUAGA CUGAUGAG	GCCGUUAGGC	CGAA AUUUAAUC	25886
632	10398	UUAAUAU C UACAGUAC	7511	GUACUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUUAUUAA	25887
634	10396	AAUAUAUC A CAGUACUG	7512	CAGUACUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUUUU	25888
639	10391	UCUACAGU A CUGUGUCC	7513	GGACACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUAGA	25889
646	10384	UACUGUGU C CUCAACCA	7514	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACACAGUA	25890
649	10381	UGUGUCCU C AACCAAAG	7515	CUUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGACACA	25891
659	10371	ACCAAAGU U GUGUCUUC	7516	GAAGACAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGGU	25892
664	10366	AGUUGUGU C UUCAUAUC	7517	GAUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ACACAACU	25893
666	10364	UUGUGUCU U CAUAUCUC	7518	GAGAUAUG CUGAUGAG	GCCGUUAGGC	CGAA AGACACAA	25894
667	10363	UGUGUCUU C AUAUCUCU	7519	AGAGUAUU CUGAUGAG	GCCGUUAGGC	CGAA AAGACACA	25895
670	10360	GUCUUCAU A UCUCUUUA	7520	UAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGAC	25896
672	10358	CUUCAUAU C UCUUUAGU	7521	ACUAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGAAG	25897
674	10356	UCAUAUCU C UUUAGUGA	7522	UCACUAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGA	25898
676	10354	AUAUCUCU U UAGUGAAC	7523	GUUCACUA CUGAUGAG	GCCGUUAGGC	CGAA AGGAUAU	25899
677	10353	UAUCUCUU U AGUGAACU	7524	AGUUCACU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUA	25900
678	10352	AUCUCUUU A GUGAACUC	7525	GAGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGAU	25901
686	10344	AGUGAACU C AUGUAAUC	7526	GAUUACAU CUGAUGAG	GCCGUUAGGC	CGAA AGUUCACU	25902
691	10339	ACUCAUGU A AUCCACAU	7527	AUGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAGU	25903
694	10336	CAUGUAUU C CACAUAUC	7528	AGUAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUACAUG	25904
700	10330	AUCCACAU A CUUCUCAU	7529	AUGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAU	25905
703	10327	CACUAUCU U CUCAUCUC	7530	GAGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUGUG	25906
704	10326	ACAUACUU C UCAUCUCC	7531	GGAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUAUGU	25907
706	10324	AUACUUCU C AUCUCCGA	7532	UCGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUAU	25908
709	10321	CUUCUCAU C UCCGAUGA	7533	UCAUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAAG	25909
711	10319	UCUCAUCU C CGAUGAUU	7534	AAUCAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGAGA	25910
719	10311	CGAUGAUU U GCUCUGAC	7535	GUCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCGG	25911
723	10307	UGAUUGCU C UGACUUGG	7536	CCAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUCA	25912
729	10301	CUCUGACU U GGUUGAUA	7537	UAUCAACC CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGAG	25913
733	10297	GACUUGGU U GAUAGCCA	7538	UGGCUAUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAGUC	25914
737	10293	UGGUUGAU A GCCACUG	7539	CAGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAACCA	25915
751	10279	CUGGAUGU U UUCUGCCC	7540	GGGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCAG	25916
752	10278	UGGAUGUU U UCUGCCCA	7541	UGGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCA	25917
753	10277	GGAUGUUU U CUGCCAC	7542	GUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AAACAUC	25918
754	10276	GAUGUUUU C UGCCACG	7543	CGUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAUC	25919
768	10262	ACGUGGCU C GGGCUCUU	7544	AAGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AGCCACGU	25920
774	10256	CUCGGGCU C UUGUGCCA	7545	UGGCACAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCGAG	25921
776	10254	CGGGCUCU U UGGCCAAU	7546	AUUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCG	25922
785	10245	UGGCCAAU C AGGCUGCC	7547	GGCAGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCAC	25923
805	10225	CCAGAUGU C CUCUCGUU	7548	AACGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCUGG	25924
808	10222	GAUGUCCU C UCUGUUUC	7549	GAAAACGA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAUC	25925
810	10220	UGUCCUCU C GUUUCCU	7550	AGGAAAAC CUGAUGAG	GCCGUUAGGC	CGAA AGAGACA	25926
813	10217	CCUCUCGU U UCCUGAA	7551	UUCAGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAGAGG	25927
814	10216	CUCUCGUU U UCCUGAAU	7552	AUUCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AACGAGAG	25928
815	10215	UCUCGUUU U CCUGAAUA	7553	UAUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAACGAGA	25929

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816	10214	CUCGUUUU C CUGAAUUAU	7554	AUAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGAG	25930
823	10207	UCCUGAAU A UGGGACGU	7555	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGGA	25931
832	10198	UGGGACGU C ACUCCAUU	7556	AAUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	25932
836	10194	ACGUCACU C CAUUUCUC	7557	GAGAAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGACGU	25933
840	10190	CACUCCAU U UCUCACU	7558	AGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUG	25934
841	10189	ACUCCAUU U CUCCACUG	7559	CAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAGU	25935
842	10188	CUCCAUUU C UCCACUGG	7560	CCAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGAG	25936
844	10186	CCAUUUUC C CACUGGGG	7561	CCCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAUGG	25937
854	10176	ACUGGGGU U UUGUCUUC	7562	GAAGACAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAGU	25938
855	10175	CUGGGGUU U UGUCUUC	7563	GGAAGACA CUGAUGAG	GCCGUUAGGC	CGAA AACCCAG	25939
856	10174	UGGGGUUU U GUCUCCA	7564	UGGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA AAACCCCA	25940
859	10171	GGUUUUUG C UUCCAUCC	7565	GGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAAAACC	25941
861	10169	UUUGUCU U CCAUCCAU	7566	AUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGACAAA	25942
862	10168	UUUGUCU C CAUCCAUU	7567	AAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGACAA	25943
866	10164	UCUCCAU C CAUUCAUU	7568	AAUGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	25944
870	10160	CAUCCAU U CAUUCUCC	7569	GGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGG	25945
871	10159	CAUCCAU C AUUCUCCU	7570	AGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUG	25946
874	10156	CCAUCU C CUCCUCUA	7571	UAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUGG	25947
875	10155	CAUUCAU C UCCUCUAU	7572	AUAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAUG	25948
877	10153	UUCAUUCU C CUCUAUCC	7573	GGAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGAA	25949
880	10150	AUUCUCCU C UAUCCAAA	7574	UUUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAU	25950
882	10148	UCUCCUCU A UCCAAACA	7575	UGUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGA	25951
884	10146	UCCUCU C CAACACG	7576	CGUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAGA	25952
895	10135	AACACGGU U CCAGACCU	7577	AGGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUGU	25953
896	10134	ACACGGU C CAGACCUC	7578	GAGGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUGU	25954
904	10126	CCAGACCU C CAACAUGU	7579	ACAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCUGG	25955
913	10117	CAACAUGU C CUCUGUUG	7580	CAACAGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUUG	25956
916	10114	CAUGUCCU C UGUUGUCA	7581	UGACAACA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAUG	25957
920	10110	UCCUCUGU U GUCAUCCA	7582	UGGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGGA	25958
923	10107	UCUGUUGU C AUCCACUC	7583	GAGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGA	25959
926	10104	GUUGUCAU C CACUCUCC	7584	GGAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGACAAC	25960
931	10099	CAUCCAU C UCCUCCUG	7585	CAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	25961
933	10097	UCCACUCU C CUCCUGCA	7586	UGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	25962
936	10094	ACUCUCCU C CUGCAUGG	7587	CCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAGU	25963
959	10071	CACUGGUU U CUUCCGGU	7588	ACCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUG	25964
960	10070	ACGUGGUU C UUCCGGUA	7589	UACCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACCCAGU	25965
962	10068	GUGGUUCU U CCGGUAGG	7590	CCUACCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCAC	25966
963	10067	UGGUUCU C CGUAGGG	7591	CCCUACCG CUGAUGAG	GCCGUUAGGC	CGAA AUGAACCA	25967
968	10062	CUUCCGGU A GGGACCCA	7592	UGGGUCCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAAG	25968
979	10051	GACCCAAU U CACAGGGA	7593	UCCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGUC	25969
980	10050	ACCCAAU C ACAGGGAC	7594	GUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGGU	25970
1006	10024	AAUGGCGU U GGCCAUGA	7595	UCAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAU	25971
1024	10006	CCGACGGU C UCUCUGU	7596	ACAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCUGCGG	25972
1026	10004	GCAGGUCU C UUCUGUGG	7597	CCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGACCUGC	25973
1028	10002	AGGUCUCU U CUGUGGAA	7598	UUCCACAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGACCU	25974
1029	10001	GGUCUCU C UGUGGAAG	7599	CUUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGACC	25975
1039	9991	GUGGAAGU A CAGAAGCA	7600	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACTUCCAC	25976
1055	9975	AGCCACAU C UGGGCAUA	7601	UAUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGCU	25977
1063	9967	CUGGGCAU A AGACUAG	7602	CUAAGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAG	25978
1069	9961	AUAAGACU U AGCCAGAC	7603	GUCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCUUAU	25979
1070	9960	UAAGACU A GCCAGACA	7604	UGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCUUA	25980
1087	9943	AGCAGUGU C GCGGACGU	7605	ACGUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACACUGCU	25981
1096	9934	GCGGACGU U CCAUCCGG	7606	CCGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCGC	25982
1097	9933	CGGACGUU C CAUCCGGC	7607	GCCGAGG CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCG	25983
1101	9929	CGUCCAU C CGGCCCU	7608	AGGGGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACG	25984
1116	9914	CUGGAGAU A UGCGAGCU	7609	AGCUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAG	25985
1125	9905	UGCGAGCU C UGCCUACC	7610	GGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCA	25986
1131	9899	CUCUGCCU A CCAAUUCA	7611	UGAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGAG	25987
1137	9893	CUACCAU U CAUCCUGU	7612	ACAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUAG	25988
1138	9892	UACCAAU C AUCCUGUC	7613	GACAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUA	25989
1141	9889	CAAUUCAU C CUGUCCUC	7614	GAGGACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUG	25990
1146	9884	CAUCCUGU C CUCGGCAU	7615	AUGCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUG	25991

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1149	9881	CCUGUCCU C GGCAUGGA	7616	UCCAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACAGG	25992
1169	9861	ACCAGUGU U CUUCCAUC	7617	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGU	25993
1170	9860	CCAGUGUU C UUCCAUCU	7618	AGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACACUGG	25994
1172	9858	AGUGUUCU U CCAUCUUU	7619	AAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACACU	25995
1173	9857	GUGUUCUU C CAUCUUUC	7620	GAAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACAC	25996
1177	9853	UCUCCAU C UUUCAUGA	7621	UCAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	25997
1179	9851	UUCCAUCU U UCAUGAUC	7622	GAUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAA	25998
1180	9850	UCCAUCUU U CAUGAUCA	7623	UGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	25999
1181	9849	CCAUCUUU C AUGAUCAA	7624	UUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUGG	26000
1187	9843	UUCAUGAU C AAUUCAGU	7625	ACUGAAUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAA	26001
1191	9839	UGAUCAAU U CAGUGAAA	7626	UUUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAUCA	26002
1192	9838	GAUCAAUU C AGUGAAAU	7627	AUUUCACU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAUC	26003
1204	9826	GAAUUGGU U UGAGCAAA	7628	UUUGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUUC	26004
1205	9825	AAAUUGGU U GAGCAAAA	7629	UUUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AACCAUUU	26005
1231	9799	CUGCCAAU C AUACCAUC	7630	GAUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCAG	26006
1234	9796	CCAUCAU A CCAUCCAG	7631	CUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGG	26007
1239	9791	CAUACCAU C CAGUUGAC	7632	GUCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	26008
1244	9786	CAUGUCAGU U GACGGUUU	7633	AAACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUG	26009
1251	9779	UUGACGGU U UCCACUCU	7634	AGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAA	26010
1252	9778	UGACGGUU U CCACUCUU	7635	AAGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCA	26011
1253	9777	GACGGUUU C CACUCUUG	7636	CAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAACCGUC	26012
1258	9772	UUUCCACU C UUGGAUGU	7637	ACAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAA	26013
1260	9770	UCCACUCU U GGAUGUCU	7638	AGACAUCU CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	26014
1267	9763	UUGGAUGU C UUUGCGAA	7639	UUUGCAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCAA	26015
1269	9761	GGAUGUCU U UGCGAACC	7640	GGUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCU	26016
1270	9760	GAUGUCUU U GCGAACC	7641	AGGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUC	26017
1279	9751	GCGAACC	7642	CUAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCGC	26018
1280	9750	CGAACCUU U GACAUGC	7643	GCUAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUUCG	26019
1286	9744	UUUGACAU A GCAUUGAG	7644	CUCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAAA	26020
1291	9739	CAUAGCAU U GAGGAAGU	7645	ACUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAUG	26021
1321	9709	AAAGCGAU C GUCCAGGG	7646	CCUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AUCCGUUU	26022
1324	9706	GCGAUCGU C CAGGGGCU	7647	AGCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUCGC	26023
1333	9697	CAGGGGCU U UACACAC	7648	GUGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCUG	26024
1334	9696	AGGGGCUU U ACCACACA	7649	UGUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCCU	26025
1335	9695	GGGGCUUU A CCACACAG	7650	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGCCCC	26026
1345	9685	CACACAGU C AUCUCAC	7651	GUGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUG	26027
1348	9682	ACAGUCAU C UCCACUGA	7652	UCAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGACUGU	26028
1350	9680	AGUCAUCU C CACUGACA	7653	UGUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGACU	26029
1374	9656	GGCUGAGU C UUUCUUC	7654	GGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGCC	26030
1376	9654	CUGAGUCU U UCUUCCCC	7655	GGGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAG	26031
1377	9653	UGAGUCUU U CUUCCCCA	7656	UGGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGACUCA	26032
1378	9652	GAGUCUUU C UUCCCCAU	7657	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGACUC	26033
1380	9650	GUCUUUCU U CCCC AUUC	7658	GAAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGAC	26034
1381	9649	UCUUUCUU C CCCAUUCU	7659	AGAAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26035
1387	9643	UUCCCCAU U CUCAAACA	7660	UGUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26036
1388	9642	UCCCCAUU C UCAAACAG	7661	CUGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGGGA	26037
1390	9640	CCCAUUCU C AAACAGCC	7662	GGCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGG	26038
1403	9627	AGCCAGGU C CUGACUUU	7663	AAAGUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCU	26039
1410	9620	UCCUGACU U UGGGUCCU	7664	AGGACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGGA	26040
1411	9619	CCUGACUU U GGGUCCUU	7665	AAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGG	26041
1416	9614	CUUUGGGU C CUUUCUUU	7666	AGGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAG	26042
1419	9611	UGGGUCCU U UCCCUUUU	7667	AAAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCA	26043
1420	9610	GGGUCCUU U CCCUUUUG	7668	CAAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCC	26044
1421	9609	GGUCCUUU C CCUUUUUG	7669	ACAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACC	26045
1425	9605	CUUUCUUU U UUGUGAGU	7670	ACUCACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAAG	26046
1426	9604	UUUCCUUU U UGUGAGUU	7671	AACUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGAA	26047
1427	9603	UUCCCUUU U GUGAGUUU	7672	AAACUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGAA	26048
1434	9596	UUGUGAGU U UCUCACAA	7673	UGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCACAA	26049
1435	9595	UGUGAGUU U CUCCACAU	7674	AUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUCACA	26050
1436	9594	GUGAGUUU C UCCACAUU	7675	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAACUCAC	26051
1438	9592	GAGUUUCU C CACAUCAU	7676	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAACUC	26052
1444	9586	CUCCACAU C AUCUGGGC	7677	GCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAG	26053

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1447	9583	CACAUCAU C UGGGCCAA	7678	UUGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGUG	26054
1457	9573	GGGCCAAU C ACUCCUUC	7679	GAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCCC	26055
1461	9569	CAUACACU C CUUCCCUU	7680	AGGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUUG	26056
1464	9566	UCACUCCU U CCCCUUCC	7681	GGAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGA	26057
1465	9565	CACUCCU C CCCUCCA	7682	UGGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	26058
1470	9560	CUUCCCUU U CCAUCAUC	7683	GAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGAAG	26059
1471	9559	UUCCCUU C CAUCAUCC	7684	GGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGAA	26060
1475	9555	CCUCCAUC C AUCCUCAC	7685	GUGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGG	26061
1478	9552	UCCAUCAU C CUCACCAG	7686	CUGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGA	26062
1481	9549	AUCAUCCU C ACCAGCUG	7687	CAGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAUGAU	26063
1501	9529	GGCCAGGU U GGUGAAAG	7688	CUUUCACC CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCC	26064
1513	9517	GAAAGUGU U UAGGGCGU	7689	ACGCCCUA CUGAUGAG	GCCGUUAGGC	CGAA ACACUUUC	26065
1514	9516	AAAGUGUU U AGGGCGUA	7690	UACGCCCU CUGAUGAG	GCCGUUAGGC	CGAA AACACUUU	26066
1515	9515	AAGUGUUU A GGGCGUAG	7691	CUACGCC CUGAUGAG	GCCGUUAGGC	CGAA AACACUUU	26067
1522	9508	UAGGGCGU A GGUGACAA	7692	UUUUCACC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCUA	26068
1533	9497	UGACAACU U GUCCACUC	7693	GAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUCA	26069
1536	9494	CAACUUGU C CACUCCCC	7694	GGGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUUG	26070
1541	9489	UGUCCACU C CCCUCUG	7695	CAGAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGACA	26071
1547	9483	CUCCCCCU C UGAUCUUC	7696	GAAGAUA CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGAG	26072
1552	9478	CCUCUGAU C UUCUCUGG	7697	CCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGAGG	26073
1554	9476	UCUGAUCU U CUCUGGAG	7698	CUCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGA	26074
1555	9475	CUGAUCUU C UCUGGAGA	7699	UCUCGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUAG	26075
1557	9473	GAUCUUCU C UGGAGUAU	7700	UAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAUC	26076
1565	9465	CUGGAGAU A ACAUCCAU	7701	AUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAG	26077
1570	9460	GAUAACAU C CAUGACGG	7702	CCGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUUUC	26078
1580	9450	AUGACGGU U CUUCCAUC	7703	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAU	26079
1581	9449	UGACGGUU C UCCAUAUA	7704	UGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCA	26080
1583	9447	ACGGUUCU U CCAUCAGC	7705	GCUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCGU	26081
1584	9446	CGGUUUCU C CAUCAGCA	7706	UGCUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACCG	26082
1588	9442	UCUCCAUC C AGCAGCCG	7707	CGGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	26083
1604	9426	GGGCGCAU C ACUUCAC	7708	GUGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCGCCC	26084
1608	9422	GCAUCACU U UCACAACU	7709	AGUUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGC	26085
1609	9421	CAUCACUU U CACAACUU	7710	AAGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	26086
1610	9420	AUCACUUU C ACAACUUU	7711	AAAGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGAU	26087
1617	9413	UCACAACU U UUGACGA	7712	UCGUCACA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGA	26088
1618	9412	CACAACUU U GUGACGAU	7713	AUCGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGUG	26089
1627	9403	GUGACGAU A GGUGAGCU	7714	AGCUCACC CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCAC	26090
1636	9394	GGUGAGCU C AAUGAUGG	7715	CCAUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGCUCACC	26091
1665	9365	GCCGAUGU U CCCAUCA	7716	UGAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGGC	26092
1666	9364	CCGAUGUU C CCCAUCAA	7717	UUGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCG	26093
1672	9358	UUCCCAUC C AAGCAGCU	7718	AGCUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26094
1681	9349	AAGCAGCU C AAGCACCU	7719	AGGUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUU	26095
1690	9340	AAGCACCU U AGCUUCAU	7720	AUGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUU	26096
1691	9339	AGCACCUU A GCUUCAUU	7721	AAUGAAGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCU	26097
1695	9335	CCUAGCUU C CAUUUCC	7722	GGAAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUAAGG	26098
1696	9334	CUUAGCUU C AUUUUCCA	7723	UGGAAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCUAAG	26099
1699	9331	AGCUUCAU U UCCAAGU	7724	ACUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGCU	26100
1700	9330	GCUUCAUU U UCCAAGUC	7725	GACUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAGC	26101
1701	9329	CUUCAUUU U CCAAGUCA	7726	UGACUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGAAG	26102
1702	9328	UUCAUUUU C CAAGUCAG	7727	CUGACUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUGAA	26103
1708	9322	UCCAAGU C AGCUCUCG	7728	CGAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGAA	26104
1713	9317	AGUCAGCU C UCGUGAUG	7729	CAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGACU	26105
1715	9315	UCAGCUCU C GUGAUGCG	7730	CGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUGA	26106
1729	9301	GCGGGUGU C CCAGCCAG	7731	CUGGCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCGC	26107
1744	9286	AGCUGUGU C AUCAGCAU	7732	AUGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAGCU	26108
1747	9283	UGUGUCAU C AGCAUAGA	7733	UCUAGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGACACA	26109
1753	9277	AUCAGCAU A GAUCUUGC	7734	GCAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAU	26110
1757	9273	GCAUAGAU C UUGCCCC	7735	GGGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUAGC	26111
1759	9271	AUAGAUCU U GCCCCAG	7736	CUGGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCUUA	26112
1782	9248	UGCCAACU U CACGAGGG	7737	CCUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGCA	26113
1783	9247	GCCAACUU C ACGCAGGA	7738	UCCUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGCG	26114
1795	9235	CAGGAUGU A ACCCAGUU	7739	AACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCUG	26115

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1803	9227	AACCCAGU U UUUGGAGG	7740	CCUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUU	26116
1804	9226	ACCCAGUU U UUGGAGGC	7741	GCCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACUGGGU	26117
1805	9225	CCCAGUUU U UGGAGGCC	7742	GGCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAACUGGG	26118
1806	9224	CCAGUUUU U GGAGGCCC	7743	GGGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA AAAACUGG	26119
1822	9208	CAAGCCCU C GACACCUC	7744	GAGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUUG	26120
1830	9200	CGACACCU C CUCCUGAG	7745	CUCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUCG	26121
1833	9197	CACCUCU C CUGAGUUC	7746	GAACUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGUG	26122
1840	9190	UCCUGAGU U CUUUCUUC	7747	GAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGGA	26123
1841	9189	CCUGAGUU C UUUCUUC	7748	GGAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACTUCAGG	26124
1843	9187	UGAGUUUU U UCUUCCAA	7749	UUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACUCA	26125
1844	9186	GAGUUUUU U CUUCCAAG	7750	CUUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACUC	26126
1845	9185	AGUUCUUU C UUCAAGC	7751	GCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAACUC	26127
1847	9183	UUCUUUUU U CCAAGCCA	7752	UGGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGAA	26128
1848	9182	UCUUUUUU C CAAGCCAG	7753	CUGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26129
1861	9169	CCAGUGGU C UUCAUUGA	7754	UCAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCACUGG	26130
1863	9167	AGUGGUCU U CAUUGAGA	7755	UCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGACCACU	26131
1864	9166	GUGGUCUU C AUUGAGAA	7756	UUCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AAGACCAC	26132
1867	9163	GUCUUCAU U GAGAAAC	7757	GUUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGAC	26133
1885	9145	CAGAGCCU C GAACUCCA	7758	UGGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCUCUG	26134
1891	9139	CUCGAACU C CAGAAAGC	7759	GCUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGAG	26135
1905	9125	AGCGAGCU C CGAGCCAC	7760	GUGGCUCG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCU	26136
1929	9101	AAUUGGCU C UGCUUCCC	7761	GGGAAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUUU	26137
1934	9096	GCUCUGCU U CCCUUGGC	7762	GCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUAGC	26138
1935	9095	CUCUGCUU C CCUUGGCC	7763	GGCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGAG	26139
1939	9091	GCUUCCCU U GGCCUUC	7764	GAAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAGC	26140
1945	9085	CUUGGCCU U UCCGAACU	7765	AGUUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGCCAAG	26141
1946	9084	UUGGCCUU U CCGAACUC	7766	GAGUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCAA	26142
1947	9083	UGGCCUUU C CGAACUCU	7767	AGAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGCCA	26143
1954	9076	UCCGAACU C UCCGGGUU	7768	AACCCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGGA	26144
1956	9074	CGAACUCU C CGGGUUUU	7769	AAAACCCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUCG	26145
1962	9068	CUCCGGGU U UUUCUCU	7770	AGAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCGGAG	26146
1963	9067	UCCGGGUU U UUUCUCU	7771	GAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACCCGGA	26147
1964	9066	CCGGGUUU U UUUCUCU	7772	AGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACCCGG	26148
1965	9065	CGGGUUUU U UCUCUCU	7773	GAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCG	26149
1966	9064	GGGUUUUU U CUCUCUCU	7774	AGAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACCC	26150
1967	9063	GGUUUUUU C UCUCUCU	7775	AAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAAACC	26151
1969	9061	UUUUUUUU C UCUCUUUC	7776	GAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAA	26152
1971	9059	UUUUCUCU C UCUUCCU	7777	GGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAAA	26153
1973	9057	UUUCUCUC C UUUCCAU	7778	AUGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAA	26154
1975	9055	CUCUCUCU U UCCCAUCA	7779	UGAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAG	26155
1976	9054	UCUCUCUU U CCCAUCAU	7780	AUGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGA	26156
1977	9053	CUCUCUUU C CCAUCAUG	7781	CAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGAG	26157
1982	9048	UUUCCCAU C AUGUUGUA	7782	UACAACAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGAAA	26158
1987	9043	CAUCAUGU U GUAAUUGC	7783	GCAUUUAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUG	26159
1990	9040	CAUGUUGU A AAUGCAAG	7784	CUUGCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAUG	26160
2007	9023	UGUGACAU U CCCCCGC	7785	GCGGGGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACA	26161
2008	9022	GUGACAUU C CCCCCGCA	7786	UGCAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUCAC	26162
2026	9004	AUGUGCCU C GCGUCCU	7787	AGGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCACAU	26163
2032	8998	CUCGCGCU C CUCAUCCA	7788	UGGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAG	26164
2035	8995	GCGCUCU C AUCCACCA	7789	UGGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGC	26165
2038	8992	CUCCUCAU C CACCAUCU	7790	AGAUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGAG	26166
2045	8985	UCCACCAU C UCCCAAAA	7791	UUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGGA	26167
2047	8983	CACCAUCU C CCAAAAUU	7792	AAUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGUG	26168
2055	8975	CCCAAAAU U UUGGAUCU	7793	AGAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGG	26169
2056	8974	CCAAAUUU U UUGAUCUU	7794	AAGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGG	26170
2057	8973	CAAAAUUU U GGAUCUUC	7795	GAAGAUCU CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUUG	26171
2062	8968	UUUUGGAU C UUCAACUG	7796	CAGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	26172
2064	8966	UUGGAUCU U CAACUGCU	7797	AGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCAA	26173
2065	8965	UGGAUCUU C AACUGCUU	7798	AAGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCCA	26174
2073	8957	CAACUGCU U CUCUGGCG	7799	CGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUG	26175
2074	8956	AACUGCUU C UCUGGCGC	7800	GCGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUU	26176
2076	8954	CUGCUUCU C UGGCGCUC	7801	GAGCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCAG	26177

Table VIII

2084	8946	CUGGCGCU C CUCCAUG	7802	CAAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCCAG	26178
2087	8943	GCGCUCU C CAUUGAUU	7803	AAUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGC	26179
2091	8939	UCCUCCAU U GAUUCUGC	7804	GCAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGGA	26180
2095	8935	CCAUGAU U CUGCUCU	7805	AAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUGG	26181
2096	8934	CAUUGAUU C UGCUCUUC	7806	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUUG	26182
2101	8929	AUUCUGCU C UUCAACA	7807	UGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAU	26183
2103	8927	UCUGCUCU U CAAACAUG	7808	CAUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGA	26184
2104	8926	CUGCUCU C AAACAUGG	7809	CCAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAG	26185
2128	8902	AGCUGCAU U GCUGUGA	7810	UCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGCU	26186
2134	8896	AUUGCUGU U GACCUUC	7811	GAAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCAAU	26187
2140	8890	GUUGACCU U UCUAUGA	7812	UCAUAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAC	26188
2141	8889	UUGACCUU U CUUAUGAA	7813	UUCAUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCAA	26189
2142	8888	UGACCUUU C UUAUGAAU	7814	AUUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGUCA	26190
2144	8886	ACCUUUCU U AUGAAUUC	7815	GAAUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGU	26191
2145	8885	CUUUCUU A UGAAUUC	7816	GGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGG	26192
2151	8879	UUUGAAU U CCUCUCGA	7817	UCGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUAA	26193
2152	8878	UAUGAAU C CUCUCGAG	7818	CUCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAUA	26194
2155	8875	GAUUCU C UCAGAGC	7819	GCUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUC	26195
2157	8873	AUUCUCU C GAGAGCAC	7820	GUGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAAU	26196
2168	8862	GAGCACAU U CUGGGACG	7821	CGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCUC	26197
2169	8861	AGCACAU C UGGGACGU	7822	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUGCU	26198
2178	8852	UGGGACGU U UUUCUCUG	7823	CAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	26199
2179	8851	GGGACGUU U UUCUCUGG	7824	CCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCC	26200
2180	8850	GGACGUUU U UCUCUGGC	7825	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUCC	26201
2181	8849	GACGUUUU U CUCUGGCC	7826	GGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGUC	26202
2182	8848	ACGUUUUU C UCUGGCCA	7827	UGGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAACGU	26203
2184	8846	GUUUUUU C UGGCCAAA	7828	UUUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAC	26204
2209	8821	CAACCAGU U GGUGGUCU	7829	AGACCACC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUUG	26205
2216	8814	UUGUGGU C UCAUUGAG	7830	CUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAA	26206
2218	8812	GGUGGUCU C AUUGAGCA	7831	UGCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGACCACC	26207
2221	8809	GGUCUCAU U GAGCACGU	7832	ACGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGACC	26208
2230	8800	GAGCACGU A CUUCACUC	7833	GAGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUC	26209
2233	8797	CACGUACU U CACUCCU	7834	AAGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUACGUG	26210
2234	8796	ACGUACU C ACUCCUUC	7835	GAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGUACGU	26211
2238	8792	ACUUCACU C CUUCUGGC	7836	GCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAGU	26212
2241	8789	UCACUCCU U CUGGCGGU	7837	ACCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGA	26213
2242	8788	CACUCCU C UGGCGGU	7838	AACCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	26214
2250	8780	CUGGCGGU U CAGGAGCU	7839	AGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACGCCAG	26215
2251	8779	UGGCGGU C AGGAGCU	7840	AAGCUCU CUGAUGAG	GCCGUUAGGC	CGAA AACCGCCA	26216
2259	8771	CAGGAGCU U UCGUGUCC	7841	GGACACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUC	26217
2260	8770	AGGAGCUU U CGUGUCCA	7842	UGGACACG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUCU	26218
2261	8769	GGAGCUU C GUGUCCAC	7843	GUGGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUC	26219
2266	8764	UUUCGUGU C CACCUUCU	7844	AGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACACGAAA	26220
2272	8758	GUCCACCU U CUCUUGA	7845	UCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGAC	26221
2273	8757	UCCACCU C UCUCUGAA	7846	UUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGGA	26222
2275	8755	CACCUUCU C UUUGAACA	7847	UGUCAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGUG	26223
2277	8753	CCUUCUCU U UGAACACU	7848	AGUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAAG	26224
2278	8752	CUUCUCU U GAACACUC	7849	GAGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAAG	26225
2286	8744	UGAACACU C GCUGCUGC	7850	GCAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUA	26226
2306	8724	AAGGGAGU A GUGUCAGU	7851	ACUGACAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCU	26227
2311	8719	AGUAGUGU C AGUCAUGG	7852	CCAUGACU CUGAUGAG	GCCGUUAGGC	CGAA ACACUACU	26228
2315	8715	GUGUCAGU C AUGGCCAU	7853	AUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGACAC	26229
2330	8700	AUGGUGGU A ACAUUCGU	7854	ACGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAU	26230
2335	8695	GGUAACAU U CGUGAUGG	7855	CCAUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUAAC	26231
2336	8694	GUAAACAU C GUGAUGGU	7856	ACCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUA	26232
2347	8683	GAUGGUGU C CCAUGGUU	7857	AACCAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUC	26233
2355	8675	CCAUGGUU U UGAGAGG	7858	CCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	26234
2356	8674	CCAUGGUU U UGAGAGGA	7859	UCCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACCAUGG	26235
2357	8673	CAUGGUUU U GAGAGGAG	7860	CUCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAACCAUG	26236
2376	8654	UGAACACU C CAUUGACC	7861	GGUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUCA	26237
2380	8650	CACUCCAU U GACCAGCG	7862	CGCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUG	26238
2410	8620	UGUGGGCU U CACAUCAU	7863	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCACA	26239

Table VIII

2411	8619	GUGGGCUU C ACAUCAUA	7864	UAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAC	26240
2416	8614	CUUCACAU C AUAACUGC	7865	GCAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAAG	26241
2419	8611	CACAUCAU A ACUGCCGU	7866	ACGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGUG	26242
2431	8599	GCCGUGAU A GUUCCAGG	7867	CCUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AUCACGGC	26243
2434	8596	GUGAUAGU U CCAGGUUC	7868	GAACCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAC	26244
2435	8595	UGAUAGUU C CAGGUUCU	7869	AGAACCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUAUCA	26245
2441	8589	UUCAGGUU U CUUAUUGG	7870	CCAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGAA	26246
2442	8588	UCCAGGUU C UADAUGGG	7871	CCCAUAUA CUGAUGAG	GCCGUUAGGC	CGAA AACUGGGA	26247
2444	8586	CAGGUUCU A UAUGGGUG	7872	CACCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAACCUG	26248
2446	8584	GGUUCUAU A UGGGUGGU	7873	ACCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGAACC	26249
2455	8575	UGGGUGGU U CUCAUCGU	7874	ACGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCCA	26250
2456	8574	GGGUGGUU C UCAUCGUG	7875	CACGAUGA CUGAUGAG	GCCGUUAGGC	CGAA AACCACCC	26251
2458	8572	GUGGUUCU C AUCGUGGU	7876	ACCACGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAACCAC	26252
2461	8569	GUUCUCAU C GUGGUGCC	7877	GGCACCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAAC	26253
2474	8556	UGCCACGU C GAACUGUA	7878	UACAGUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGCA	26254
2482	8548	CGAACUGU A CUCACGCC	7879	GGCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCG	26255
2485	8545	ACUGUACU C ACGCCUGA	7880	UCAGGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUACAGU	26256
2496	8534	GCCUGAGU C GUUCAUUC	7881	GAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGGC	26257
2499	8531	UGAGUCGU U CAAUCCUG	7882	CAGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGACUCA	26258
2500	8530	GAGUCGUU C AAUCCUGU	7883	ACAGGAUU CUGAUGAG	GCCGUUAGGC	CGAA AACGACUC	26259
2504	8526	CGUUCAAU C CUGUUCUU	7884	AAGAACAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAACG	26260
2509	8521	AAUCCUGU U CUUGAUUU	7885	AAAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUU	26261
2510	8520	AUCCUGUU C UUGAUUUU	7886	AAAAUCA CUGAUGAG	GCCGUUAGGC	CGAA AACAGGAU	26262
2512	8518	CCUGUUCU U GAUUUUAC	7887	GUAAAAUC CUGAUGAG	GCCGUUAGGC	CGAA AGAACAGG	26263
2516	8514	UUCUGAUU U UUAUCUGU	7888	ACCAGUAA CUGAUGAG	GCCGUUAGGC	CGAA AUAAGAA	26264
2517	8513	UCUUGAUU U UACUGGUG	7889	CACCAGUA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAAGA	26265
2518	8512	CUUGAUUU U ACUGGUGU	7890	ACACCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAAUCAAG	26266
2519	8511	UUGAUUUU A CUGGUGUC	7891	GACACCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUCAA	26267
2527	8503	ACUGGUGU C UGAGUUGA	7892	UCAACUCA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAGU	26268
2533	8497	GUCUGAGU U GAGCAGGG	7893	CCUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGAC	26269
2544	8486	GCAGGGGU U UUCCACC	7894	GGUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUGC	26270
2545	8485	CAGGGGUU U UCCACCG	7895	CGUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACCCTUG	26271
2546	8484	AGGGGUUU U CCCACGCG	7896	GCGGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAACCCCU	26272
2547	8483	GGGGUUUU C CCACCGCC	7897	GGCGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCC	26273
2561	8469	GCCCUGGU U CCACUUC	7898	GGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGC	26274
2562	8468	CCCUGGUU C CACUCCC	7899	GGGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGG	26275
2567	8463	GUUCCACU U CCCAAGUU	7900	AACUUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAC	26276
2568	8462	UUCCACUU C CCAAGUUU	7901	AAACUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAA	26277
2575	8455	UCCCAAGU U UACAUCUU	7902	AAGAUGUA CUGAUGAG	GCCGUUAGGC	CGAA AACUGGGA	26278
2576	8454	CCCAAGUU U ACAUCUUC	7903	GAAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AACUUGGG	26279
2577	8453	CCAAGUUU A CAUCUUC	7904	GGAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAACUUGG	26280
2581	8449	GUUACAU C UUCUCGU	7905	ACGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAAC	26281
2583	8447	UUACAUCU U CCUCGUUU	7906	AUACGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGUAA	26282
2584	8446	UACAUCUU C CUCGUUU	7907	AAUACGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGUA	26283
2587	8443	AUCUUCU C GUUUGGG	7908	CCCAUAC CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAU	26284
2590	8440	UUCUCGU A UUGGGUC	7909	GACCCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAA	26285
2592	8438	CCUCGUUU U GGGUCCC	7910	GGGACCCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGAGG	26286
2598	8432	AUUGGGGU C CCUCCAG	7911	CUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAAU	26287
2602	8428	GGGUCCCU U CCAGGUCC	7912	GGACCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCC	26288
2603	8427	GGUCCCUU C CAGGUCCU	7913	AGGACCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGACC	26289
2609	8421	UUCAGGU C CUUUUUC	7914	GAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGAA	26290
2612	8418	CAGGUCCU U UUUUCCAU	7915	AUGGAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACCUG	26291
2613	8417	AGGUCCUU U UUUUCCAU	7916	AAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCU	26292
2614	8416	GGUCCUUU U UUCAUUC	7917	GAAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACC	26293
2615	8415	GUCCUUUU U UCCAUCU	7918	AGAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGAC	26294
2616	8414	UCCUUUUU U CCAUUCU	7919	AAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGA	26295
2617	8413	CCUUUUUU C CAUUCUUC	7920	GAAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGG	26296
2621	8409	UUUUCCAU U CUUCCUAG	7921	CUAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAAA	26297
2622	8408	UUUCCAUU C UUCUAGG	7922	CCUAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAAA	26298
2624	8406	UCCAUCU U CCUAGGAG	7923	CUCCUAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGA	26299
2625	8405	CCAUCUU C CUAGGAGC	7924	GCUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUGG	26300
2628	8402	UUCUCCU A GGAGCACC	7925	GGUGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAA	26301

Table VIII

2645	8385	UGGCGGU C AUAUUCAC	7926	GUGAAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCA	26302
2648	8382	CUGGUCAU A UUCACUGA	7927	UCAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGACCAG	26303
2650	8380	GGUCAUAU U CACUGAAU	7928	AUUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGACC	26304
2651	8379	GUCAUAUU C ACUGAAUG	7929	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGAC	26305
2661	8369	CUGAAUGU A CCACAUUG	7930	CAUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCAG	26306
2668	8362	UACCACAU U GCCUGAAG	7931	CUUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGUA	26307
2679	8351	CUGAAGCU C GACUCACC	7932	GGUGAGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCAG	26308
2684	8346	GCUCGACU C ACCCAAUA	7933	UAUUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAGC	26309
2692	8338	CACCCAAU A CAUCUCGU	7934	ACGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGUG	26310
2696	8334	CAUAUCAU C UCGUGCGU	7935	ACGCACGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUUG	26311
2698	8332	AUACAUCU C GUGCGUGG	7936	CCACGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUAU	26312
2710	8320	CGUGGAAU U CCGUGAGA	7937	UCUCACGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCACG	26313
2711	8319	GUGGAAUU C CGUGAGAG	7938	CUCUCACG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAC	26314
2725	8305	GAGUGGGU U UCUGACCA	7939	UGGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCCACUC	26315
2726	8304	AGUGGGUU U CUGACCAG	7940	CUUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA AACCCACU	26316
2727	8303	GUGGGUUU C UGACCAGU	7941	ACUGGUCA CUGAUGAG	GCCGUUAGGC	CGAA AAACCCAC	26317
2736	8294	UGACCAGU C CCCCCCA	7942	UGGGGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUCA	26318
2746	8284	CCCCCAU A CCGCGGUU	7943	AACGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGGG	26319
2754	8276	ACCGGCGU U GGAGCAGC	7944	GCUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCCCGU	26320
2764	8266	GAGCAGCU C CAUCUUCU	7945	AGAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUC	26321
2768	8262	AGCUCCAU C UUCUCUAU	7946	AUAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGCU	26322
2770	8260	CUCACAU U CUCUAUGA	7947	UCAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAG	26323
2771	8259	UCCAUCUU C UCUAUGAC	7948	GUCAUAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	26324
2773	8257	CAUCUUCU C UAUGACTU	7949	AAGUCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAUG	26325
2775	8255	UCUUCUCU A UGACUUC	7950	GAAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAGA	26326
2781	8249	CUAUGACU U UCGGCAUG	7951	CAUGCCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUAG	26327
2782	8248	UAUGACUU U CGGCAUGU	7952	ACAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAUA	26328
2783	8247	AUGACTUU C GGCAUGUA	7953	UACAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCAU	26329
2791	8239	CGGCAUGU A GGGGCAGA	7954	UCUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCG	26330
2806	8224	GAGACCU U CACGAAA	7955	UUUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUC	26331
2807	8223	AGCACCUU C ACGCAAAA	7956	UUUUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCU	26332
2817	8213	CGCAAAAU U CCGUUGGC	7957	GCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGCG	26333
2818	8212	GCAAAAUU C CCUUGGCC	7958	GGCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGC	26334
2822	8208	AAUUCUUU U GGCCUUCG	7959	CGAGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAUU	26335
2829	8201	UUGGCCUU C GGUGCAGC	7960	GCUGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCAA	26336
2842	8188	CAGCCAGU C CUCAACCA	7961	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGCUG	26337
2845	8185	CCAGUCCU C AACCAUUU	7962	AAUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	26338
2852	8178	UCAACCAU U UCAAGGAC	7963	GUCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUGA	26339
2853	8177	CAACCAUU U CAAGGACC	7964	GGUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUUG	26340
2854	8176	AACCAUUU C AAGGACCC	7965	GGGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGUU	26341
2867	8163	ACCGGAU C GUCCUAUG	7966	CAUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGGGU	26342
2870	8160	CGAAUCGU C CUAUGCUC	7967	GAGCAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUCG	26343
2873	8157	AUCGUCCU A UGCUCUUC	7968	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGACGAU	26344
2878	8152	CCUAUGCU C UUCAACCU	7969	AGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUAGG	26345
2880	8150	UAUGCUCU U CAACUCA	7970	UGAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAUA	26346
2881	8149	AUGCUCUU C AACUCAG	7971	CUGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAU	26347
2887	8143	UUCAACCU C AGCACUUG	7972	CAAGUGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGAA	26348
2894	8136	UCAGCACU U GACGAGGA	7973	UCCUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUGA	26349
2905	8125	CGAGGACU C UCCGAUGU	7974	ACAUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUCG	26350
2907	8123	AGGACUCU C CGAUGUCA	7975	UGACAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUCCU	26351
2914	8116	UCCGAUGU C ACAAGGA	7976	UCCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGGA	26352
2929	8101	GAGGGUGU C ACAACACU	7977	AGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACACCCUC	26353
2938	8092	ACAACACU C AGAAGGUC	7978	GACCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUGU	26354
2946	8084	CAGAAGGU C UGUAGAAC	7979	GUUCUACA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCUG	26355
2950	8080	AGGUUCGU A GAACACAU	7980	AUGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGACCU	26356
2959	8071	GAACACAU C CACUCCAC	7981	GUGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUC	26357
2964	8066	CAUCCACU C CACUCUUC	7982	GAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAGU	26358
2969	8061	ACUCCACU C UUCAUGGU	7983	ACCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAGU	26359
2971	8059	UCCACUCU U CAUGGUGA	7984	UCACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	26360
2972	8058	CCACUCUU C AUGGUGAC	7985	GUCACCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGG	26361
2986	8044	GACAAUGU U CCAUCCAU	7986	AUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGUC	26362
2987	8043	ACAAUGUU C CAUCCAUA	7987	UAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGU	26363

Table VIII

2991	8039	UGUCCAU C CAUAACUU	7988	AAGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACA	26364
2995	8035	CCAUCCAU A ACUUUGCA	7989	UGCAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGG	26365
2999	8031	CCAUAACU U UGCACUAG	7990	CUAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUGG	26366
3000	8030	CAUAACUU U GCACUAGU	7991	ACUAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAUG	26367
3006	8024	UUUGCACU A GUUGGGGC	7992	GCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAAA	26368
3009	8021	GCACUAGU U GGGGCUU	7993	AGAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACUAGUGC	26369
3016	8014	UUGGGGCU C UUCAUGUC	7994	GACAUCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCAA	26370
3018	8012	GGGGCUCU U CAUGUCCG	7995	CGGACAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCC	26371
3019	8011	GGGCUCUU C AUGUCCGG	7996	CCGGACAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCCC	26372
3024	8006	CUUCAUGU C CGGGACCG	7997	CGGUCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAAG	26373
3037	7993	ACCGCCCU U UGUGUACC	7998	GGUACACA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCGGU	26374
3038	7992	CCGCCCUU U GUGUACCC	7999	GGGUACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCGG	26375
3043	7987	CUUUGUGU A CCCUCUGA	8000	UCAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAG	26376
3048	7982	UGUACCCU C UGACUUCU	8001	AGAAAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUACA	26377
3054	7976	CUCUGACU U CUUGGACU	8002	AGUCCAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGAG	26378
3055	7975	UCUGACUU C UUGGACUC	8003	GAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGA	26379
3057	7973	UGACUUCU U GGACUCUU	8004	AAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUCA	26380
3063	7967	CUUGGACU C UUUUUUGG	8005	CCAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAAG	26381
3065	7965	UGGACUCU U UUUUGGGU	8006	ACCCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUCCA	26382
3066	7964	GGACUCUU U UUUUGGGU	8007	AACCCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUCC	26383
3067	7963	GACUCUUU U UUGGGUUG	8008	CAACCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUC	26384
3068	7962	ACUCUUUU U UGGGUUGC	8009	GCAACCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGU	26385
3069	7961	CUCUUUUU U GGGUUGCC	8010	GGCAACCC CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGAG	26386
3074	7956	UUUUGGGU U GCCAUUA	8011	UAUAUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAA	26387
3080	7950	GUUGCCAU A UAGUAACA	8012	UGUUAUA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAC	26388
3082	7948	UGCAUAU A GUAACACC	8013	GGUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGCA	26389
3085	7945	CAUAUAU A ACACCAAC	8014	GUUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUAUG	26390
3099	7931	AACCGCCU C UUCCACAU	8015	AUGUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCGGUU	26391
3101	7929	CCGCUCU C CCACAUC	8016	GGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCGG	26392
3102	7928	CGCCUCU C CACAUCA	8017	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGCG	26393
3108	7922	UCCACAU C CAAGGUCA	8018	UGACCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAA	26394
3115	7915	UCCAAGGU C AAUCACUU	8019	AAGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGGA	26395
3119	7911	AGGUCAAU C ACUUUUC	8020	GGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGACCU	26396
3123	7907	CAUCACU U UCCGACC	8021	GGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUUG	26397
3124	7906	AAUCACUU U UCCGACCG	8022	CGGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUU	26398
3125	7905	AUCACUUU U CCGACCGG	8023	CCGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGAU	26399
3126	7904	UCACUUUU C CGACCGGU	8024	ACCGGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUGA	26400
3135	7895	CGACCGU U CGAGAAAC	8025	GUUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACCCGUCG	26401
3136	7894	GACCGGUU C GAGAAACC	8026	GGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACCGGUC	26402
3146	7884	AGAAACCU C CGUUCGAC	8027	GUCGAACG CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUCU	26403
3150	7880	ACCUCCGU U CGACCAGC	8028	GCUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGGU	26404
3151	7879	CCUCCGUU C GACCAGCC	8029	GGCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA AACGGAGG	26405
3162	7868	CCAGCCAU C UCAGUUUU	8030	AAAACUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUUG	26406
3164	7866	AGCCAUCU C AGUUUUGC	8031	GCAAAACU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUCU	26407
3168	7862	AUCUCAGU U UUGCUGUG	8032	CACAGCAA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAU	26408
3169	7861	UCUCAGUU U UGCUGUGC	8033	GCACAGCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGAGA	26409
3170	7860	CUCAGUUU U GCUGUGCC	8034	GGCACAGC CUGAUGAG	GCCGUUAGGC	CGAA AAACUGAG	26410
3182	7848	GUGCCCUU A GAGACUGG	8035	CCAGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGCAC	26411
3198	7832	GAUGCCCU C CAGUGACA	8036	UGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAUC	26412
3208	7822	AGUGACAU U GCCUUCUU	8037	AAGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACU	26413
3213	7817	CAUGCCU U CUUCCUG	8038	CAGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUUG	26414
3214	7816	AUUGCCUU C UUCCUGG	8039	CCAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCAAU	26415
3216	7814	UGCCUUCU U UCCUGCG	8040	CGCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGCA	26416
3217	7813	GCCUUCUU U CCUGCGU	8041	ACGCCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGGC	26417
3218	7812	CCUUCUUU C CUGGCGUG	8042	CACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAGG	26418
3228	7802	UGGCGUGU U UUGCCGCU	8043	AGCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCA	26419
3229	7801	GGCGUGUU U UGCGGUG	8044	CAGCGGCA CUGAUGAG	GCCGUUAGGC	CGAA AACACGCC	26420
3230	7800	GCGUGUUU U GCCGUGA	8045	UCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA AAACACGC	26421
3244	7786	UGAGCGAU C GACUUCGA	8046	UCGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCGCUCA	26422
3249	7781	GAUCGACU U CGAUGAUG	8047	CAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAUC	26423
3250	7780	AUCGACUU C GAUGAUGG	8048	CCAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGAU	26424
3262	7768	GAUGCCU C UUGCGGU	8049	ACCGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCCAUC	26425

3264	7766	UGGCCUCU U UGCGGUAC	8050	GUACCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGCCA	26426
3265	7765	GGCCUCUU U GCGGUACC	8051	GGUACCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGCC	26427
3271	7759	UUUGCGGU A CCUAGUGA	8052	UCACUAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGCAAA	26428
3275	7755	CGGUACCU A GUGAACUC	8053	GAGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUACCG	26429
3283	7747	AGUGAACU C UUCUUUUG	8054	CAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCACU	26430
3285	7745	UGAACUCU U CUUUUGUC	8055	GACAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUCA	26431
3286	7744	GAACUCUU C UUUUGUCA	8056	UGACAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUUC	26432
3288	7742	ACUCUUUU U UUGUCAUC	8057	GAUGACAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGU	26433
3289	7741	CUCUUUUU U UGUCAUCU	8058	AGAUGACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGAG	26434
3290	7740	UCUUUUUU U GUCAUCUG	8059	CAGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAGA	26435
3293	7737	UCUUUUUU C AUCUGGUU	8060	AACCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAGA	26436
3296	7734	UUUGUCAU C UGGUUGAG	8061	CUCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGACAAA	26437
3301	7729	CAUCUGGU U GAGUCUUU	8062	AAAGACUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAUG	26438
3306	7724	GGUUGAGU C UUUUUUUC	8063	GAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAACC	26439
3308	7722	UUGAGUCU U UCUUUCCA	8064	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAA	26440
3309	7721	UGAGUCUU U CUUUCCAA	8065	UUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGACUCA	26441
3310	7720	GAGUCUUU C UUUCCAAA	8066	UUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGACUC	26442
3312	7718	GUCUUUUU U UCCAAACC	8067	GGUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGAC	26443
3313	7717	UCUUUUUU U CCAAACCU	8068	AGGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26444
3314	7716	CUUUUUUU C CAAACUC	8069	GAGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAAG	26445
3322	7708	CCAAACCU C UCCCAAGG	8070	CCUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUUUUG	26446
3324	7706	AAACCUCU C CCAAGGUG	8071	CACCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUUU	26447
3336	7694	AGGUGCGU C CUUUUGCC	8072	GGCAAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGCACCU	26448
3339	7691	UGCGUCCU U UUGCCCA	8073	UGGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACGCA	26449
3340	7690	GCGUCCUU U UGCCCCAC	8074	GUGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGACGC	26450
3341	7689	CGUCCUUU U GCCCCACC	8075	GGUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACG	26451
3351	7679	CCCCACCU C UUUUUAGU	8076	ACUAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGGG	26452
3353	7677	CCACCUCU U UUAAGUCC	8077	GGACUAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUG	26453
3354	7676	CACCUCUU U UUAAGUCC	8078	AGGACUAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGUG	26454
3355	7675	ACCUCUUU U UAGUCCUG	8079	CAGGACUA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGGU	26455
3356	7674	CCUCUUUU U AGUCCUGG	8080	CCAGGACU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	26456
3357	7673	CUCUUUUU A GUCCUGGU	8081	ACCAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGAG	26457
3360	7670	UUUUUAGU C CUGGUUUU	8082	AAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUAAAAA	26458
3366	7664	GUCCUGGU U UUUCCAUG	8083	CAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAC	26459
3367	7663	UCCUGGUU U UUCAUGU	8084	ACAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGA	26460
3368	7662	CCUGGUUU U UCCAUGUU	8085	AACAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	26461
3369	7661	CUGGUUUU U CCAUGUUC	8086	GAACAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACCAG	26462
3370	7660	UGGUUUUU C CAUGUUUC	8087	AGAACAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACCA	26463
3376	7654	UUCAUGU U CUUUAUGA	8088	UCAUAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGAA	26464
3377	7653	UCCAUGUU C UUAUAGAG	8089	CUCAUAAA CUGAUGAG	GCCGUUAGGC	CGAA AACAUGGA	26465
3379	7651	CAUGUUCU U UAUGAGUG	8090	CACUCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAACAU	26466
3380	7650	AUGUUCUU U AUGAGUGU	8091	ACACUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAACA	26467
3381	7649	UGUUCUUU A UGAGUGUC	8092	GACACUCA CUGAUGAG	GCCGUUAGGC	CGAA AAGAACCA	26468
3389	7641	AUGAGUGU C CAUGUUAU	8093	AUAACAUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCAU	26469
3395	7635	GUCCAUGU U AUGGAUAG	8094	CUAUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGAC	26470
3396	7634	UCCAUGUU A UGGAUAGA	8095	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAUGGA	26471
3402	7628	UUAUGGAU A GACAUGAC	8096	GUCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUA	26472
3441	7589	GGCAGAGU C CGAUGGCA	8097	UGCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGCC	26473
3452	7578	AUGGCAGU U GUUGCGUU	8098	AACGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCAU	26474
3455	7575	GCAGUUGU U GGUUCCA	8099	UGGAACGC CUGAUGAG	GCCGUUAGGC	CGAA ACAACUGC	26475
3460	7570	UGUUGCGU U CCAAACAG	8100	CUGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGCAACA	26476
3461	7569	GUUGCGUU C CAAACAGA	8101	UCUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AACGCAAC	26477
3473	7557	ACAGAGCU U GCUCCAUU	8102	AAUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGU	26478
3477	7553	AGCUUGCU C CAUUCUCC	8103	GGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAGCU	26479
3481	7549	UGCUCCAU U CUCCAAA	8104	UUUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGCA	26480
3482	7548	GUCCAUAU C UCCCAAAG	8105	CUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAGC	26481
3484	7546	UCCAUAUU C CCAAAGCG	8106	CGCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGA	26482
3494	7536	CAAAGCGU C ACCGUGC	8107	GCAGCGGU CUGAUGAG	GCCGUUAGGC	CGAA ACGCUUUG	26483
3512	7518	GCCGUGAU C AAAAUUCC	8108	GGAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA AUUACGGC	26484
3518	7512	AUCAAUUU C CCGGUUUC	8109	GAAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGAU	26485
3519	7511	UCAAAUUU C CGGCUUCU	8110	AGAAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUUGA	26486
3525	7505	UUCGCGCU U CUCGUACU	8111	AGUACGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGAA	26487

Table VIII

3526	7504	UCCGGCUU C UCGUACUG	8112	CAGUACGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCGGA	26488
3528	7502	CGGCUUCU C GUACUGUC	8113	GACAGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCCG	26489
3531	7499	CUUCUCGU A CUGUCUUC	8114	GAAGACAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAGAAG	26490
3536	7494	CGUACUGU C UUCACAGA	8115	UCUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACG	26491
3538	7492	UACUGUCU U CACAGACG	8116	CGUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGACAGUA	26492
3539	7491	ACUGUCUU C ACAGACGG	8117	CCGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGACAGU	26493
3550	7480	AGACGGGU U CACUACUA	8118	UAGUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCGUCU	26494
3551	7479	GACGGGUU C ACUACUAC	8119	GUAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACCCGUC	26495
3555	7475	GGUUCACU A CUACUGCA	8120	UGCAGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACC	26496
3558	7472	UCACUACU A CUGCAGCU	8121	AGCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGA	26497
3567	7463	CUGCAGCU A GAGACACC	8122	GGUGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAG	26498
3581	7449	ACCAAGAU C AGCAUGAU	8123	AUCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGU	26499
3590	7440	AGCAUGAU C UGUCCAAC	8124	GUUGGACA CUGAUGAG	GCCGUUAGGC	CGAA ACUAGCUU	26500
3594	7436	UGAUCUGU C CAACUUUC	8125	GAAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUCA	26501
3600	7430	GUCCAACU U UCUCUGC	8126	GCAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGAC	26502
3601	7429	UCCAACUU U CUUCUGCA	8127	UGCAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGGA	26503
3602	7428	CCAACUUU C UUCUGCAU	8128	AUGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUUGG	26504
3604	7426	AACUUUCU U CUGCAUGA	8129	UCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUU	26505
3605	7425	ACUUUCUU C UGCAUGAU	8130	AUCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGU	26506
3628	7402	GGUGCGCU C UAAUUCUG	8131	CAGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AGCGCACC	26507
3630	7400	UGCUCUCU A AUUCUGGG	8132	CCCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGACGCA	26508
3633	7397	GCUCUAAU U CUGGGACG	8133	CGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGAGC	26509
3634	7396	CUCUAAU C UGGGACGU	8134	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAG	26510
3643	7387	UGGGACGU C CGUGGCCA	8135	UGGCCACG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	26511
3661	7369	GAUGCCAU C CACUACAG	8136	CUGUAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAUC	26512
3666	7364	CAUCCACU A CAGCGUUC	8137	GAACGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	26513
3673	7357	UACAGCGU U CUUCAUGA	8138	UCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGCUGUA	26514
3674	7356	ACAGCGUU C UUCAUGAU	8139	AUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AACGCUGU	26515
3676	7354	AGCGUUCU U CAUGAUUC	8140	GAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAACGCU	26516
3677	7353	GCGUUCUU C AUGAUUCC	8141	GGAUAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGC	26517
3683	7347	UUCAUGAU U CCGGCCGC	8142	GCGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAA	26518
3684	7346	UCAUGAUU C CGGCCGCU	8143	AGCGGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGA	26519
3695	7335	GCCGCUGU C CGCCGUG	8144	CAGCGGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGC	26520
3716	7314	GAGCGCAU U GCCUCAGC	8145	GCUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCGCUC	26521
3721	7309	CAUUGCCU C AGCUUGCC	8146	GGCAAGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUUG	26522
3726	7304	CCUCAGCU U GCCAACCG	8147	CGGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGAGG	26523
3745	7285	AACCAUGU A GGCAUAGU	8148	ACUAUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGUU	26524
3751	7279	GUAGGCAU A GUGGCAAA	8149	UUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUAC	26525
3770	7260	AGGAGUGU U GCCGUGU	8150	ACAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCU	26526
3779	7251	GCCGUGU U ACCGUAAC	8151	GUUACGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGC	26527
3780	7250	CCGUGUU A CCGUAACG	8152	CGUACGG CUGAUGAG	GCCGUUAGGC	CGAA AACAGCGG	26528
3785	7245	GUUACCGU A ACGGUGAG	8153	CUCACCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAAC	26529
3801	7229	GGGUGACU U GUCCCCAG	8154	CUGGGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCACCC	26530
3804	7226	UGACUUGU C CCCAGCAU	8155	AUGCUGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUCA	26531
3813	7217	CCCAGCAU C CGGUGCU	8156	AGCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGGG	26532
3822	7208	CGGUGCU A GCAGGAGA	8157	UCUCCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCG	26533
3840	7190	CCGACACU C CAACAUCG	8158	CGAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCGG	26534
3847	7183	UCCAACAU C GACGAAGG	8159	CCUUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGGA	26535
3864	7166	GGAAGCCU C GCGCGAGU	8160	ACUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUCC	26536
3879	7151	GUGUGAAU A GUGCACUU	8161	AAGUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACAC	26537
3887	7143	AGUGCACU U GCCUGAAC	8162	GUUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCACU	26538
3898	7132	CUGAACGU U UAUUGAGG	8163	CCUCAUA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCAG	26539
3899	7131	UGAACGUU U AUUGAGGU	8164	ACCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCA	26540
3900	7130	GAACGUUU A UUGAGGUC	8165	GACCUCAA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUUC	26541
3902	7128	ACGUUUUU U GAGGUCAA	8166	UUGACUUC CUGAUGAG	GCCGUUAGGC	CGAA AUAAACGU	26542
3908	7122	AUUGAGGU C AAUGAGGU	8167	ACCUCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAU	26543
3919	7111	UGAGGUGU U GAUGUAAU	8168	AUUACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACACCUCA	26544
3925	7105	GUUGAUGU A AUCUGACG	8169	CGUCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	26545
3928	7102	GAUGUAAU C UGACGUGA	8170	UCACGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUACAUC	26546
3938	7092	GACGUGAU C AAUUGCUU	8171	AAGCAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUCACGUC	26547
3946	7084	CAAAUGCU U UAGCAGUG	8172	CACUGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUUG	26548
3947	7083	AAAUGCUU U AGCAGUGG	8173	CCACUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUU	26549

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3948	7082	AAUGCUUU A GCAGUGGA	8174	UCCACUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAUU	26550
3971	7059	ACCGCUGU U GUCACAGC	8175	GCUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGU	26551
3974	7056	GCUGUUGU C ACAGCGUA	8176	UACGCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGC	26552
3982	7048	CACAGCGU A CAGUGACC	8177	GGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUGUG	26553
3998	7032	CAGGCUGU U GCCGGCCU	8178	AGGCCCGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCUG	26554
4007	7023	GCCGGCCU C AAGUCCAA	8179	UUGGACUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGGC	26555
4012	7018	CCUCAAGU C CAAAAGAA	8180	UUCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACTUAGAG	26556
4024	7006	AAGAAACU C UCCCAUGC	8181	GCAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUUCUU	26557
4026	7004	GAAACUCU C CCAUGCUG	8182	CAGCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUUC	26558
4039	6991	GCUGAAAU U CUCCUUGA	8183	UCAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUCAGC	26559
4040	6990	CUGAAAUU C UCCUUGAC	8184	GUCAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAG	26560
4042	6988	GAAAUUCU C CUUGACCU	8185	AGGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUC	26561
4045	6985	AUUCUCCU U GACCUCAA	8186	UUGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAU	26562
4051	6979	CUUGACCU C AAUUCUUU	8187	AAAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAG	26563
4055	6975	ACCUCAAU U CUUUGCCC	8188	GGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGGU	26564
4056	6974	CCUCAAUU C UUUGCCCA	8189	UUGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAGG	26565
4058	6972	UCAAUUCU U UGCCCAA	8190	UUUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUGA	26566
4059	6971	CAAUUCUU U GCCCAAAC	8191	GUUUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUUG	26567
4076	6954	AAACUGCU U AUGUCACU	8192	AGUGACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUU	26568
4077	6953	AACUGCUU A UGUCACUC	8193	GAGUGACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUU	26569
4081	6949	GCUUAUGU C ACUCUUGG	8194	CCAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUAAGC	26570
4085	6945	AUGUCACU C UUGGUCUU	8195	AAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGACAU	26571
4087	6943	GUCACUCU U GGUCUUAU	8196	AUAAGACC CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGAC	26572
4091	6939	CUCUUGGU C UUAUCUAG	8197	CUAGAUA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAG	26573
4093	6937	CUUGGUCU U AUCUAGCC	8198	GGCUAGAU CUGAUGAG	GCCGUUAGGC	CGAA AGACCAAG	26574
4094	6936	UUGGUCUU A UCUAGCCA	8199	UGGCUAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGACCAA	26575
4096	6934	GGUCUUAU C UAGCCAAC	8200	GUUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA AUAAGACC	26576
4098	6932	UCUUAUCU A GCCAACCC	8201	GGUUGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGA	26577
4109	6921	CAACCCAU C UCGUUGGC	8202	GCCAACGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUUG	26578
4111	6919	ACCCAUCU C GUUGGCUG	8203	CAGCCAAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGGU	26579
4114	6916	CAUCUCGU U GGCUGCCA	8204	UGGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUAG	26580
4130	6900	ACUGCGCU C ACAAGGGU	8205	ACCCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAGU	26581
4139	6891	ACAAGGGU C AUGACACA	8206	UGUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUGU	26582
4151	6879	ACACAAAU C AGGAACAC	8207	GUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGUGU	26583
4164	6866	ACACGGCU A GCUGGUUG	8208	CAACCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCCGUGU	26584
4171	6859	UAGCUGGU U GUCUGUCU	8209	AGACAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCUA	26585
4174	6856	CUGGUUGU C UGUCUGCG	8210	CGCAGACA CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAG	26586
4178	6852	UUGUCUGU C UGCGAACG	8211	CGUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAGACAA	26587
4188	6842	GCGAACGU U GCUUCUCU	8212	AGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCGC	26588
4192	6838	ACGUUGCU U CUCUGGCU	8213	AGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACGU	26589
4193	6837	CGUUGCUU C UCUGGCUC	8214	GAGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAACG	26590
4195	6835	UUGCUUCU C UGGCUCAG	8215	CUGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCAA	26591
4201	6829	CUCUGGCU C AGGAAUUA	8216	UAAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGAG	26592
4208	6822	UCAGGAU U AGCACA AU	8217	AUUGUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCCUGA	26593
4209	6821	CAGGAUU A GCACAAUC	8218	GAUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUG	26594
4217	6813	AGCACA AU C AUCAAGAG	8219	CUCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCU	26595
4220	6810	ACAAUCAU C AAGAGAAG	8220	CUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGU	26596
4244	6786	AGCAACAU U CCGGCGAU	8221	AUCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGCU	26597
4245	6785	GCAACAUU C CGGCGAUC	8222	GAUCGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUGC	26598
4253	6777	CCGGCGAU C UUCGUUCC	8223	GGAACGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCGG	26599
4255	6775	GGCGAUCU U CGUUCUG	8224	CAGGAACG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCGCC	26600
4256	6774	GCGAUUCU C GUUCCUGG	8225	CCAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCGC	26601
4259	6771	AUCUUCGU U CCUGGAAC	8226	GUUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGAU	26602
4260	6770	UCUUCGUU C CUGGAACU	8227	AGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACGAAGA	26603
4269	6761	CUGGAACU U CAGCCAUC	8228	GAUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCAG	26604
4270	6760	UGGAACUU C AGCCAUC	8229	GGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCA	26605
4277	6753	UCAGCCAU C CAACAGAA	8230	UUCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUGA	26606
4292	6738	AAAAAGGU C GCGACUCC	8231	GGAGUCGC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUUU	26607
4299	6731	UCGCGACU C CCAAGACA	8232	UGUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCGCGA	26608
4314	6716	CAGCGCCU C CCAAACCU	8233	AGGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGCUG	26609
4323	6707	CCAAACCU A UCUUCCA	8234	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUGG	26610
4325	6705	AAACCUAU C UUCCAAU	8235	AUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUAGGUUU	26611

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4327	6703	ACCUAUCU U UCCAAUGC	8236	GCAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGGU	26612
4328	6702	CCUAUCUU U CCAUUGCC	8237	GGCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUAAGG	26613
4329	6701	CUAUCUUU C CAUUGCCC	8238	GGGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUAG	26614
4339	6691	AAUGCCCU U CCGUGCA	8239	UGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAUU	26615
4340	6690	AUGCCCUU C CCGUGCAU	8240	AUGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCAU	26616
4362	6668	GGAAGAAU A CUCCAUAG	8241	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUUCC	26617
4365	6665	AGAAUACU C CCAUGGUC	8242	GACCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUCU	26618
4373	6657	CCCAUGGU C AUCACACU	8243	AGUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	26619
4376	6654	AUGGUCAU C ACACUCAA	8244	UUGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACCAU	26620
4382	6648	AUCACACU C AAUAAGGC	8245	GCCUUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAU	26621
4386	6644	CACUCAAU A AGGCAAUC	8246	GADUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGUG	26622
4394	6636	AAGGCAAU C AAGGCAAU	8247	AUUGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCUU	26623
4403	6627	AAGGCAAU U GUCUGAAG	8248	CUUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCUU	26624
4406	6624	GCAAUUGU C UGAAGAGC	8249	GCUCUACA CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGC	26625
4417	6613	AAGAGCAU C UGGCAGUU	8250	AACUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCUU	26626
4425	6605	CUGGCAGU U CCUCCAGG	8251	CCUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCAG	26627
4426	6604	UGGCAGUU C CUCCAGGG	8252	CCUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCA	26628
4429	6601	CAGUUCUU C CAGGGCCA	8253	UGGCCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACUG	26629
4439	6591	AGGGCCAU U CUGUGAGC	8254	GCUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCUU	26630
4440	6590	GGGCAAUU C UGUGAGCU	8255	AGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCCU	26631
4449	6581	UGUGAGCU C UUCUCCUU	8256	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCACA	26632
4451	6579	UGAGCUCU U CCUCCUUU	8257	AAAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUCU	26633
4452	6578	GAGCUCUU C CUCCUUUC	8258	GAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCUC	26634
4455	6575	CUCUUCUU C CUUUCUUU	8259	AGAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAG	26635
4458	6572	UUCUCCUU U UCUCUGCA	8260	UGCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	26636
4459	6571	UCCUCCUU U CUCUGCAG	8261	CUCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGA	26637
4460	6570	CCUCCUUU C UCUGCAGU	8262	ACUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGG	26638
4462	6568	UCCUUUCU C UGCAGUGG	8263	CCACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGA	26639
4480	6550	CACAACGU A CAUGGUGU	8264	ACACCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUGUG	26640
4489	6541	CAUGGUGU C AAGUCUUU	8265	AAGCAUUC CUGAUGAG	GCCGUUAGGC	CGAA AACCAUGG	26641
4497	6533	CAAGUGCU U CCCAUGUC	8266	GACAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCACUUG	26642
4498	6532	AAGUGCUU C CCAUGUCU	8267	AGACAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCACUU	26643
4505	6525	UCCCAUGU C UUCCCCAU	8268	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGGA	26644
4507	6523	CCAUGUCU U CCCCAGAA	8269	UCAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGG	26645
4508	6522	CAUGUCUU C CCCAUGAA	8270	UUAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUG	26646
4522	6508	GAAGUGCU C AGGCAUCU	8271	AGAUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AGCACUUC	26647
4529	6501	UAGGCAU C UUUCCCAG	8272	CUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCUGA	26648
4531	6499	AGGCAUCU U UCCCAGAA	8273	UUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCCU	26649
4532	6498	GGCAUCUU U CCCAGAAC	8274	GUUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGCC	26650
4533	6497	GCAUCUUU C CCAGAAC	8275	GGUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUGC	26651
4543	6487	CAGAACCU C AAUGAGCC	8276	GGCUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCUG	26652
4554	6476	UGAGCCCU A UCUGAGAA	8277	UUCUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUCU	26653
4556	6474	AGCCCUAU C UGAGAACG	8278	CGUUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGGGCU	26654
4566	6464	GAGAACGU U UUCCCGAG	8279	CUCGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCUC	26655
4567	6463	AGAACGUU U UCCCGAGG	8280	CCUCGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCU	26656
4568	6462	GAACGUUU U CCCGAGGC	8281	GCCUCGGG CUGAUGAG	GCCGUUAGGC	CGAA AAACGUUC	26657
4569	6461	AACGUUUU C CCGAGGCG	8282	CGCCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGUU	26658
4582	6448	GGCGAAGU C CUUGAACG	8283	CGUUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGCC	26659
4585	6445	GAAGUCCU U GAACGCCU	8284	AGGCGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGACUUC	26660
4594	6436	GAACGCCU U UAGUGCCU	8285	AGGCACUA CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUUC	26661
4595	6435	AACGCCUU U AGUGCCUG	8286	CAGGCACU CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGUU	26662
4596	6434	ACGCCUUU A GUGCCUGG	8287	CCAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGCGU	26663
4609	6421	CUGGUGAU C CGAGUACA	8288	UGUACUCG CUGAUGAG	GCCGUUAGGC	CGAA AUACCCAG	26664
4615	6415	AUCCGAGU A CACCCUGG	8289	CCAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCGGAU	26665
4627	6403	CCUGGCGU C AAUCCAGC	8290	GCUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAGG	26666
4631	6399	GCGUCAAU C CAGCGCGG	8291	CCGCGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGACGC	26667
4643	6387	CGCGGCCU C AGAAUCUU	8292	AAGAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGCG	26668
4649	6381	CUCAGAAU C UUCUUUUC	8293	GAAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGAG	26669
4651	6379	CAGAAUCU U CCUUUCAC	8294	GUGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCUG	26670
4652	6378	AGAAUCUU C CUUUCACC	8295	GGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCUU	26671
4655	6375	AUCUUCCU U UCACCAAG	8296	CUUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAU	26672
4656	6374	UCUUCCUU U CACCAAGC	8297	GCUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAGA	26673

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4657	6373	CUUCCUUU C ACCAAGCU	8298	AGCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAAG	26674
4666	6364	ACCAAGCU U CGUGAUGA	8299	UCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGU	26675
4667	6363	CCAAGCUU C GUGAUGAC	8300	GUCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGG	26676
4677	6353	UGAUGACU U CCACUUCG	8301	CGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUCA	26677
4678	6352	GAUGACUU C CACUUCGU	8302	ACGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAUC	26678
4683	6347	CUUCCACU U CGUUGUUG	8303	CAACAACG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAG	26679
4684	6346	UUCCACUU C GUUGUUGU	8304	ACAACAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAA	26680
4687	6343	CACUUCGU U GUUGUCUU	8305	AAGACAAC CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGUG	26681
4690	6340	UUCGUUGU U GUCUUCUA	8306	UAGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAACGAA	26682
4693	6337	GUUGUUGU C UUCUAAAA	8307	UUUUAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAC	26683
4695	6335	UGUUGUCU U CUAAAAUU	8308	AAUUUUAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAACA	26684
4696	6334	GUUGUCUU C UAAAAUUG	8309	CAAUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGACAAC	26685
4698	6332	UGUCUUCU A AAAUUGUG	8310	CACAAUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGACA	26686
4703	6327	UCUAAAAU U GUGUUUGU	8311	ACAAACAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUAGA	26687
4708	6322	AAUUGUGU U UGUCCUAG	8312	CUAGGACA CUGAUGAG	GCCGUUAGGC	CGAA AACACAAU	26688
4709	6321	AUUGUGUU U GUCCUAGG	8313	CCUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AACACAAU	26689
4712	6318	GUGUUGUU C CUAGGACC	8314	GGUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAACAC	26690
4715	6315	UUUGUCCU A GGACCAUC	8315	GAUGGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACAAA	26691
4723	6307	AGGACCAU C AAAGCACC	8316	GGUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCCU	26692
4736	6294	CACCACCU C CGGUCGUG	8317	CACGACCG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGUG	26693
4741	6289	CCUCCGGU C GUGGUUUG	8318	CAUACCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAGG	26694
4747	6283	GUCGUGGU A UGACACUC	8319	GAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCACGAC	26695
4755	6275	AUGACACU C CAGCCGCU	8320	AGCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCAU	26696
4771	6259	UGCAACCU U GUAAGCCA	8321	UGGCUUAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGCA	26697
4774	6256	AACCUUGU A AGCCAGCC	8322	GGCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGUU	26698
4795	6235	UGGCAGAU C UGCAGUCC	8323	GGACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCCA	26699
4802	6228	UCUGCAGU C CUCAACAG	8324	CUGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGA	26700
4805	6225	GCAGUCCU C AACAGUUC	8325	GAACUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGC	26701
4812	6218	UCAACAGU U CCAGAAAG	8326	CUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGA	26702
4813	6217	CAACAGUU C CAGAAAGU	8327	ACUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUUGUG	26703
4822	6208	CAGAAAGU U UUUUCUCU	8328	AGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUG	26704
4823	6207	AGAAAGUU U UUCUCUC	8329	GAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACUUCU	26705
4824	6206	GAAAGUUU U UUCUCUCU	8330	AGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACUUUC	26706
4825	6205	AAAGUUUU U UCUCUCUU	8331	AAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACUUU	26707
4826	6204	AAGUUUUU U CUCUCUUC	8332	GAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACUUU	26708
4827	6203	AGUUUUUU C UCUCUUCU	8333	AGAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAACUU	26709
4829	6201	UUUUUUUU C UCUCUUCU	8334	GGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAA	26710
4831	6199	UUUUCUCU C UUCUCCUC	8335	GAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAAA	26711
4833	6197	UUCUCUCU C UUCUCCUG	8336	CAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAA	26712
4834	6196	UCUCUCUU C UCCUCUGA	8337	UCAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGA	26713
4836	6194	UCUCUUCU C CUCUGAGC	8338	GCUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGA	26714
4839	6191	CUUCUCCU C UGAGCCGG	8339	CCGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAG	26715
4849	6181	GAGCCGGU A UUCCCAU	8340	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCGGCUC	26716
4851	6179	GCCGGUUAU U CCCAUCC	8341	GGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUACCGGC	26717
4852	6178	CCGGUUAU C CCCAUCCA	8342	UGGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUACCGG	26718
4858	6172	UUCCCCAU C CAUGGUUAU	8343	AUACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26719
4865	6165	UCCAUGGU A UAUACCUU	8344	AAGGUUA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGA	26720
4867	6163	CAUGGUUAU A UACCUUCU	8345	AGAAGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUACCAUG	26721
4869	6161	UGGUUAUAU A CCUUCUCA	8346	UGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACCA	26722
4873	6157	AUAUACCU U CUCACGCU	8347	AGCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUUAUA	26723
4874	6156	UAUACCUU C UCACGCUC	8348	GAGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUUAU	26724
4876	6154	UACCUUCU C ACGCUCUG	8349	CAGAGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGUA	26725
4882	6148	CUCACGCU C UGGUUGGU	8350	ACCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUGAG	26726
4887	6143	GCUCUGGU U GGUAGAAU	8351	AUUCUACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAGC	26727
4891	6139	UGGUUGGU A GAAUUGAG	8352	CUCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	26728
4896	6134	GGUAGAAU U GAGCGAUC	8353	GAUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUACC	26729
4904	6126	UGAGCGAU C AGUCCGUU	8354	AACGGACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCUCA	26730
4908	6122	CGAUCAGU C CGUUUGGC	8355	GCCAAACG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUCG	26731
4912	6118	CAGUCCGU U UGCAUGU	8356	ACAUGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACGGACUG	26732
4913	6117	AGUCCGUU U GGCAUGUU	8357	AACAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AACGGACU	26733
4921	6109	UGGCAUGU U GAUGUUGU	8358	ACAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCA	26734
4927	6103	GUUGAUGU U GUCCAGCA	8359	UGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	26735

Table VIII

4930	6100	GAUGUUGU C CAGCAUGA	8360	UCAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ACAACAUC	26736
4940	6090	AGCAUGAU U CGUGCCUC	8361	GAGGCACG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGCU	26737
4941	6089	GCAUGAUU C GUGCCUCA	8362	UGAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGC	26738
4948	6082	UCGUGCCU C AGUCCAAU	8363	AUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AGGCACGA	26739
4952	6078	GCCUCAGU C CAAUGGGC	8364	GCCCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGGC	26740
4966	6064	GGCGAAGU U CGAGUCGU	8365	ACGACUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGCC	26741
4967	6063	GCGAAGUU C GAGUCGUC	8366	GACGACUC CUGAUGAG	GCCGUUAGGC	CGAA AACUUCGC	26742
4972	6058	GUUCGAGU C GUCUUCAU	8367	AUGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCGAAC	26743
4975	6055	CGAGUCGU C UUCAUUCG	8368	CGAAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGACUCG	26744
4977	6053	AGUCGUCU U CAUUCGUG	8369	CACGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGACGACU	26745
4978	6052	GUCGUCUU C AUUCGUGU	8370	ACACGAAU CUGAUGAG	GCCGUUAGGC	CGAA AAGACGAC	26746
4981	6049	GUCUUCAU U CGUGUGCC	8371	GGCACACG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGAC	26747
4982	6048	UCUUCAUU C GUGUGCCC	8372	GGGCACAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAGA	26748
4996	6034	CCCCCAU A ACAGUACU	8373	AGUACUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGGG	26749
5002	6028	AUAACAGU A CUCAUCAC	8374	GUGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUAU	26750
5005	6025	ACAGUACU C AUCACCAA	8375	UUGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGUACUGU	26751
5008	6022	GUACUCAU C ACCAACUU	8376	AAGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGUAC	26752
5016	6014	CACCAACU U GCGACGGA	8377	UCCGUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGUG	26753
5026	6004	CGACGGAU U UCUACCGA	8378	UCGGUAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCGUCG	26754
5027	6003	GACGGAU U CUACCGAU	8379	AUCGGUAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGUC	26755
5028	6002	ACGGAUUU C UACCGAUA	8380	UAUCGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCGU	26756
5030	6000	GGAUUUCU A CCGAUACG	8381	CGUAUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUCC	26757
5036	5994	CUACCGAU A CGUCCACG	8382	CGUGGACG CUGAUGAG	GCCGUUAGGC	CGAA AUCGGUAG	26758
5040	5990	CGAUACGU C CACGUCUC	8383	GAGACGUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUAUCG	26759
5046	5984	GUCCACGU C UCUGGGCG	8384	CGCCACGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGAC	26760
5048	5982	CCACGUCU C UGGGCGGC	8385	GCCGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGACGUGG	26761
5060	5970	GCGGCACU A GCUGCUGU	8386	ACAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCGC	26762
5069	5961	GCUGCUGU C ACUGCAGA	8387	UCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACACGAGC	26763
5082	5948	CAGAUGGU U CUCCACGG	8388	CCUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCUG	26764
5083	5947	AGAUGGUU C UCCACGGA	8389	UCCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACCAUCU	26765
5085	5945	AUGGUUCU C CCAGGAUC	8390	GAUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCAU	26766
5093	5937	CCCAGGAU C ACUCUCCC	8391	GGGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGGG	26767
5097	5933	GGAUACAU C UCCUUCU	8392	AGAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUCC	26768
5099	5931	AUCACUCU C CCUUCUCC	8393	GGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGAU	26769
5103	5927	CUUCUCCU U CUCCUUCU	8394	AGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGAG	26770
5104	5926	UCUCCUUC C UCCUUCUG	8395	CAGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAGA	26771
5106	5924	UCCUUCU C CUUCUGUU	8396	AACAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGGA	26772
5109	5921	CUUCUCCU U CUGUUAUG	8397	CAUAACAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAG	26773
5110	5920	UUCUCCU C UGUUAUGA	8398	UCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAA	26774
5114	5916	CCUUCUGU U AUGAUGGU	8399	ACCAUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAGG	26775
5115	5915	CUUCUGUU A UGAUGGUU	8400	AACCAUCA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAG	26776
5123	5907	AUGAUGGU U GGUUUCAC	8401	GUGAAACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAU	26777
5127	5903	UGGUUGGU U UCACACUC	8402	GAGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	26778
5128	5902	GGUUGGUU U CACACUCU	8403	AGAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AACCACCC	26779
5129	5901	GUUGGUUU C ACACUCUU	8404	AAGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAACCAAC	26780
5135	5895	UUCACACU C UUCCGGCU	8405	AGCCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAA	26781
5137	5893	CACACUCU U CCGGUGU	8406	ACAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGUG	26782
5138	5892	ACACUCUU C CGGUGUC	8407	GACAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGU	26783
5146	5884	CCGCUGU C AAUACCCC	8408	GGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGG	26784
5150	5880	CUGUCAAU C ACCUCGU	8409	AGCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGACAG	26785
5159	5871	ACCCUGCU C GCCUGAA	8410	UUCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGGU	26786
5164	5866	GUUCGCCU U GAAGUUAG	8411	CUAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCGAGC	26787
5170	5860	CUUGAAGU U AGCCCCCA	8412	UGGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCAG	26788
5171	5859	UUGAAGUU A GCCCCCAU	8413	AUGGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AACUCAA	26789
5180	5850	GCCCCCAU U UCAGAUAU	8414	AUAUCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGGC	26790
5181	5849	CCCCCAU U CAGAUUG	8415	CAUAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGGGG	26791
5182	5848	CCCCAUUU C AGAUUUGU	8416	ACAUAUCU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGGG	26792
5187	5843	UUUCAGAU A UGUCUGUU	8417	AACAGACA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGAAA	26793
5191	5839	AGAUUUGU C UGUUGUGA	8418	UCACAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAUAUCU	26794
5195	5835	AUGUCUGU U GUGUAUAC	8419	GUUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACGACACU	26795
5201	5829	GUUGUGAU A ACAAGUC	8420	GACUUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCACAAC	26796
5209	5821	AACAAAGU C CCAUCAU	8421	AUGAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACTUUGUU	26797

5215	5815	GUCCCAAU C AUCGUUCU	8422	AGAACGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGAC	26798
5218	5812	CCAAUCAU C GUUCUUAC	8423	GUAAGAAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGG	26799
5221	5809	AUCAUCGU U CUUACAUI	8424	AAUGUAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUGAU	26800
5222	5808	UCAUCGUU C UUACAUIU	8425	AAAUGUAA CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGA	26801
5224	5806	AUCGUUCU U ACAUUUUG	8426	CAAAAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGAU	26802
5225	5805	UCGUUCUU A CAUUUUGG	8427	CCAAAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGA	26803
5229	5801	UCUACAUI U UUGGGUAC	8428	GUACCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAGA	26804
5230	5800	CUUACAUI U UGGGUACU	8429	AGUACCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUAAG	26805
5231	5799	UUACAUIU U GGGUACUC	8430	GAGUACCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUAA	26806
5236	5794	UUUUGGUU A CUCCGUCU	8431	AGACGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAA	26807
5239	5791	UGGGUACU C CGUCUCGU	8432	ACGAGACG CUGAUGAG	GCCGUUAGGC	CGAA AGUACCCA	26808
5243	5787	UACUCCGU C UCGUACGA	8433	UCGUACGA CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGUA	26809
5245	5785	CUCCGUCU C GUACGACU	8434	AGUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGACGGAG	26810
5248	5782	CGUCUCGU A CGACUUUC	8435	GAAAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGAGACG	26811
5254	5776	GUACGACU U UCUGUACA	8436	UGAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCGUAC	26812
5255	5775	UACGACUU U CUGUUCAA	8437	UUGAACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGUA	26813
5256	5774	ACGACUUU C UGUUCAU	8438	AUUGAAC A CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCGU	26814
5260	5770	CUUUCUGU U CAAUUGGA	8439	UCCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAAG	26815
5261	5769	UUUCUGUU C AAUUGGAC	8440	GUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAA	26816
5265	5765	UGUUCAAU U GGACUACU	8441	AGUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUGAAC A	26817
5271	5759	AUUGGACU A CUUUCUUU	8442	AAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAU	26818
5274	5756	GGACUACU U UCUUCCA	8443	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUCC	26819
5275	5755	GACUACUU U CUUCCAG	8444	CUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUAGUC	26820
5276	5754	ACUACUUU C UUCCAGC	8445	GCUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUAGU	26821
5278	5752	UACUUUCU U UCCAGCAC	8446	GUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUA	26822
5279	5751	ACUUUCUU U CCAGCACG	8447	CGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGU	26823
5280	5750	CUUUCUUU C CAGCACGU	8448	ACGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	26824
5289	5741	CAGCACGU U GUAGCAA	8449	UUUGCCUAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUG	26825
5292	5738	CACGUUGU A GGCAAAGG	8450	CCUUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAACGUG	26826
5306	5724	AGGGCAAU C UCAUCCC	8451	GGGAAUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCCU	26827
5308	5722	GGCAAUCU C AUUCCCCA	8452	UGGGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGCC	26828
5311	5719	AAUCUCAU U CCCAUCU	8453	AGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAUU	26829
5312	5718	AUCUCAU C CCCAUCU	8454	AAGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGAU	26830
5318	5712	UUCCCCAU C UUGACACU	8455	AGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26831
5320	5710	CCCCAUCU U GACACUAG	8456	CUAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGGG	26832
5327	5703	UUGACACU A GGCACAAA	8457	UUUGUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCA	26833
5345	5685	CAAAACCGU C UUCGCGU	8458	ACCGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUUG	26834
5347	5683	AACCGUCU U CCGGUGU	8459	ACACCGGG CUGAUGAG	GCCGUUAGGC	CGAA AGACGGUU	26835
5348	5682	ACCGUCUU C CCGGUGUA	8460	UACACCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACGGU	26836
5356	5674	CCCGGUGU A UUCUGUGA	8461	UCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACACCGGG	26837
5358	5672	CGUGUUAU U CUGUGAUC	8462	GAUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AUACACCG	26838
5359	5671	GGUGUAUU C UGUGAUCC	8463	GGAUACA CUGAUGAG	GCCGUUAGGC	CGAA AAUACACC	26839
5366	5664	UCUGUGAU C CAUUCGUA	8464	UACGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCACAGA	26840
5370	5660	UGAUCCAU U CGUAUCCA	8465	UGGAUACG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUCA	26841
5371	5659	GAUCCAU C GUAUCCAG	8466	CUGGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUC	26842
5374	5656	CCAUUCGU A UCCAGAGU	8467	ACUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGAAUGG	26843
5376	5654	AUUCGUUA C CAGAGUUC	8468	GAACUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUACGAAU	26844
5383	5647	UCCAGAGU U CCAAGCUC	8469	GAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGGA	26845
5384	5646	CCAGAGUU C CAAGCUCG	8470	CGAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCUGG	26846
5391	5639	UCCAAGCU C GAUCCGGG	8471	CCCAGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	26847
5395	5635	AGCUUGAU C CGGGAUCU	8472	AGAUCGAG CUGAUGAG	GCCGUUAGGC	CGAA AUCGAGCU	26848
5402	5628	UCCGGGAU C UCAGUCUG	8473	CAGACUGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCGGGA	26849
5404	5626	CGGGAUCU C AGUCUGUA	8474	UACAGACU CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCCG	26850
5408	5622	AUCUCAGU C UGUAGUC	8475	GACUUAUA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAU	26851
5412	5618	CAGUCUGU A AGUCGGAA	8476	UUCCGACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGACUG	26852
5416	5614	CUGUAAGU C GGAAAUUG	8477	CAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUUAACAG	26853
5423	5607	UCGGAAAU U GGUGAAU	8478	AAUUCACC CUGAUGAG	GCCGUUAGGC	CGAA AUUUCGGA	26854
5431	5599	UGGUGAAU U GGACUCUG	8479	CAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACCA	26855
5437	5593	AUUGGACU C UGGGAUUG	8480	CAUUCGUA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAU	26856
5449	5581	GAUUGGAU C UGAAGUGC	8481	GCACUUA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUUC	26857
5474	5556	GUGGCUGU C AUGAAUUA	8482	AUAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCAC	26858
5481	5549	UCAUGAAU A UUGCCGCC	8483	GGCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUGA	26859

Table VIII

5483	5547	AUGAAUUAU U GCCGCCGC	8484	GCGGCCGC CUGAUGAG	GCCGUUAGGC	CGAA	AUAUUAU	26860
5494	5536	CGCGCCU C CCCUAGCU	8485	AGCUAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGCG	26861
5499	5531	CCUCCCCU A GCUCGACC	8486	GGUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGAGG	26862
5503	5527	CCCUAGCU C GACCUUUG	8487	CAAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUAGGG	26863
5509	5521	CUCGACCU U UGUGGAAA	8488	UUUCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCGAG	26864
5510	5520	UCGACCUU U GUGGAAAU	8489	AUUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGGUCGA	26865
5521	5509	GGAAAUU A ACCUCUUG	8490	CAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUUUCC	26866
5526	5504	UGUAACCU C UUGCUGCA	8491	UGCAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUUACA	26867
5528	5502	UAACCUCU U GCUGCAAU	8492	AUUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGUUA	26868
5540	5490	GCAUAGCU A GCUGGGUC	8493	GACCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUGC	26869
5548	5482	AGCUGGGU C GGUGAAAU	8494	AUUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCCAGCU	26870
5563	5467	AUGAGCCU C AUCCAUCA	8495	UGAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUCAU	26871
5566	5464	AGCCUCAU C CAUCACGA	8496	UCGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGGCU	26872
5570	5460	UCAUCCAU C ACCAACAG	8497	CUGUCCGU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAUGA	26873
5581	5449	GAACAGGU U GUAGUUCG	8498	CGAACUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGUUC	26874
5584	5446	CAGGUUGU A GUUCGGCA	8499	UGCCGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACAACCUG	26875
5587	5443	GUUGUAGU U CGGCACCC	8500	GGGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA	ACUACAAC	26876
5588	5442	UUGUAGUU C GGCACCCU	8501	AGGGUGCC CUGAUGAG	GCCGUUAGGC	CGAA	AACUACAA	26877
5609	5421	GGAGACAU C AGCCUGUG	8502	CACAGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCUCC	26878
5627	5403	GUGAGGGU A GCAUGACA	8503	UGUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUCAC	26879
5644	5386	CAUGACAU C AACAAUCU	8504	AGAUGUUA CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCAUG	26880
5651	5379	UACAACAU C UCAUUUCC	8505	GGAAAGUA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGUUGA	26881
5653	5377	AACAAUCU C AUUCCAUC	8506	AUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGUUU	26882
5656	5374	AAUCUCAU U UCCAUAU	8507	AUAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGAUU	26883
5657	5373	AUCUCAU U CCAUUAUG	8508	CAUAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGAGAU	26884
5658	5372	UCUCAUUU C CAUUAUGU	8509	ACAUAAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUAGAGA	26885
5662	5368	AUUUCCAUC U AUGUUCUC	8510	GAGAAACU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAAU	26886
5663	5367	UUUCCAUC A UGUUCUCU	8511	AGAGAACA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGAAA	26887
5667	5363	CAUUAUGU U CUCUGGGC	8512	GCCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUAUUG	26888
5668	5362	AUUAUGUU C UCUGGGCA	8513	UGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUAUUA	26889
5670	5360	UAUGUUCU C UGGGCACU	8514	AGUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	ACAACAUA	26890
5687	5343	GCGGAUGU C UGUUACCG	8515	CGGUACCA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCCGC	26891
5692	5338	UGUCUGGU A CCGAUGG	8516	CCAUCCGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGACA	26892
5706	5324	UGGGCAGU C CUCUCAGU	8517	ACUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUGCCCA	26893
5709	5321	GCAGUCCU C UCAGUGCU	8518	AGCACUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGACUGC	26894
5711	5319	AGUCCUCU C AGUGCUUC	8519	GAAGCACU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGACU	26895
5718	5312	UCAGGCUU U CAGCCAUC	8520	GAUGGCUU CUGAUGAG	GCCGUUAGGC	CGAA	AGCACUGA	26896
5719	5311	CAGUGCUU C AGCCAUCU	8521	AGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGACACUG	26897
5726	5304	UCAGCCAUC C UCAGCAGC	8522	GCUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGCUGA	26898
5728	5302	AGCCAUCU C AGCAGCCA	8523	UGGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGCU	26899
5747	5283	ACCCUGGU U GGUGCUAG	8524	CUAGCACC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGGGU	26900
5754	5276	UUGGUGCU A GCACGGCU	8525	AGCCGUGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCACCAA	26901
5765	5265	ACGGCUGU U CUCAGUCU	8526	AGACUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCCGU	26902
5766	5264	CGGCUGUU C UCAGUCUU	8527	AAGACUGA CUGAUGAG	GCCGUUAGGC	CGAA	AACAGCCG	26903
5768	5262	GCUGUUCU C AGUCUUCU	8528	AGAAGACU CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAGC	26904
5772	5258	UUCUCAGU C UUCUGUUU	8529	AAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGAGAA	26905
5774	5256	CUCAGUCU U CUGUUUAU	8530	AUAAACAG CUGAUGAG	GCCGUUAGGC	CGAA	AGACUGAG	26906
5775	5255	UCAGUCUU C UGUUUUUG	8531	CAUAAACA CUGAUGAG	GCCGUUAGGC	CGAA	AAGACUGA	26907
5779	5251	UCUCUGUU U UAUUGCCU	8532	AGGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAAGA	26908
5780	5250	CUUCUGUU U AUGGCCUC	8533	GAGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA	AACAGAAG	26909
5781	5249	UUCUGUUU A UGGCCUCU	8534	AGAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGAA	26910
5788	5242	UAUGGCCU C UUUGAUGA	8535	UCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCAUA	26911
5790	5240	UGGCCUCU U UGAUGAUC	8536	GAUCAUA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGCCA	26912
5791	5239	GGCCUCUU U GAUGAUCU	8537	AGAUAUUC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGCC	26913
5798	5232	UUGAUGAU C UGUGGCAG	8538	CUGCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUCA	26914
5810	5220	GGCAGAAU C CUCCUUGU	8539	ACAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUCUGCC	26915
5813	5217	AGAAUCCU C CUUGUUUU	8540	AAAACAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUCU	26916
5816	5214	AUCCUCCU U GUUUUACC	8541	GGUAAAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGAU	26917
5819	5211	CUCCUUGU U UAACCGGC	8542	GCCGGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGGAG	26918
5820	5210	UCCUUGUU U UACCGGC	8543	CGCCGGUA CUGAUGAG	GCCGUUAGGC	CGAA	AACAAGGA	26919
5821	5209	CCUUGUUU U ACGGCCGC	8544	GCGCCGGU CUGAUGAG	GCCGUUAGGC	CGAA	AAACAAGG	26920
5822	5208	CUUGUUUU A CCGGCCGC	8545	GGCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAACAAG	26921

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5842	5188	AUGGAGAU C CAGUACAG	8546	CUGUACUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAU	26922
5847	5183	GAUCCAGU A CAGUGAUC	8547	GAUCCACUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUC	26923
5855	5175	ACAGUGAU C UGUUUUUU	8548	AAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AUCACUGU	26924
5859	5171	UGAUCUGU U UUUUCCUC	8549	GAGGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	26925
5860	5170	GAUCUGUU U UUUCUCA	8550	UGAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAUC	26926
5861	5169	AUCUGUUU U UUCUCAG	8551	CUGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGAU	26927
5862	5168	UCUGUUUU U UCCUCAGC	8552	GCUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGA	26928
5863	5167	CUGUUUUU U CCUCAGCA	8553	UGCUGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACAG	26929
5864	5166	UGUUUUUU C CUCAGCAU	8554	AUGCUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACA	26930
5867	5163	UUUUUCCU C AGCAUCUC	8555	GAGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGAAAAA	26931
5873	5157	CUCAGCAU C UCAGGUUC	8556	GAACCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAG	26932
5875	5155	CAGCAUCU C AGGUUCGA	8557	UCGAACCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCUG	26933
5880	5150	UCUCAGGU U CGAAUCCG	8558	CGGAUUCG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGAGA	26934
5881	5149	CUCAGGUU C GAAUCCGG	8559	CCGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCGAG	26935
5886	5144	GUUCGAAU C CGGCUGGG	8560	CCCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUCGAAC	26936
5897	5133	GCUGGGAU U GGCUCAUC	8561	GAUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAGC	26937
5902	5128	GAUUGGCU C AUCCAUCC	8562	GGAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAUC	26938
5905	5125	UGGCUCAU C CAUCCUUU	8563	AAAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCA	26939
5909	5121	UCAUCCAU C CUUUCACC	8564	GGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGA	26940
5912	5118	UCCAUCU U UCACCCUG	8565	CAGGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAUGGA	26941
5913	5117	CCAUCUUU U CACCCUGC	8566	GCAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAUGG	26942
5914	5116	CAUCCUUU C ACCCUGCA	8567	UGCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAUG	26943
5925	5105	CCUGCACU A UCGCGCUU	8568	AAGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGG	26944
5927	5103	UGCACU A C GCGCUU A U	8569	AUAAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCA	26945
5933	5097	AUCGCGCU U AUGUAUGA	8570	UCAUACA CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAU	26946
5934	5096	UCGCGCUU A UGU A U G A G	8571	CUCAUACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCGCGA	26947
5938	5092	GCUUAUGU A U G A G C C G U	8572	ACGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUAAGC	26948
5947	5083	UGAGCCGU U GGGCAUUA	8573	UAAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCUCA	26949
5954	5076	UUGGGCAU U AUGACUCC	8574	GGAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAA	26950
5955	5075	UGGGCAU A U G A C U C C A	8575	UGGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCA	26951
5961	5069	UUAUGACU C CAUUGCCA	8576	UGGCA AUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUAA	26952
5965	5065	GACUCCAU U GCCAUAAA	8577	UUUAUGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUC	26953
5971	5059	AUUGCCAU A AAGCCCAA	8578	UUGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAU	26954
5981	5049	AGCCCAAU C ACAUCACC	8579	GGUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGCU	26955
5986	5044	AAUCACAU C ACCGUUUU	8580	AAAACGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAUU	26956
5992	5038	AUCACCGU U UUGUCCA	8581	UGGACAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAU	26957
5993	5037	UCACCGUU U UUGUCCAC	8582	GUGGACAA CUGAUGAG	GCCGUUAGGC	CGAA AACGGUGA	26958
5994	5036	CACCGUUU U UGUCCACU	8583	AGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AAACGGUG	26959
5995	5035	ACCGUUUU U GUCCACUA	8584	UAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGGU	26960
5998	5032	GUUUUUGU C CACUAUUG	8585	CAUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAC	26961
6003	5027	UGUCCACU A UUGGUGAG	8586	CUCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGACA	26962
6005	5025	UCCACU A U G G U G A G C C	8587	GGCUACC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGGA	26963
6020	5010	CCUGAUGU U C C A G U G G G	8588	CCCACUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAGG	26964
6021	5009	CUGAUGUU C CAGUGGGG	8589	CCCACUG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCAG	26965
6034	4996	GGGGAAGU C CAAAGUCA	8590	UGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCC	26966
6041	4989	UCCAAAGU C ACGGCCCC	8591	GGGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGGA	26967
6053	4977	GCCCCGAU U UCUCUUC	8592	GAAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCGGGGC	26968
6054	4976	CCCCGAU U CUCCUUA	8593	UGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGGGG	26969
6055	4975	CCCGAUUU C UCCUUCAG	8594	CUGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGGG	26970
6057	4973	CGAUUUCU C CUUCAGGU	8595	ACCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAUCG	26971
6060	4970	UUUCUCCU U CAGGUGUU	8596	AACACCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAA	26972
6061	4969	UUCUCCUU C AGGUGUUU	8597	AAACACCU CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAA	26973
6068	4962	UCAGGUGU U UGAACAC	8598	GUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA AACCCUGA	26974
6069	4961	CAGGUGUU U UGAACACC	8599	GGUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AACACCUG	26975
6070	4960	AGGUGUUU U GAACACCC	8600	GGGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	26976
6084	4946	CCCCUGGU U UCUCUGG	8601	CCAGACGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGG	26977
6085	4945	CCUGGUGU U CGUCUGGA	8602	UCCAGACG CUGAUGAG	GCCGUUAGGC	CGAA AACACGGG	26978
6086	4944	CCUGGUUU C GUCUGGAC	8603	GUCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AAACACGG	26979
6089	4941	GGUUUCGU C UGGACGUU	8604	AACGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACGAAACC	26980
6097	4933	CUGGACGU U CUUAACGU	8605	ACGUUAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCAG	26981
6098	4932	UGGACGUU C UUAACGUU	8606	AACGUUAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCA	26982
6100	4930	GACGUUCU U AACGUUCU	8607	AGAACGUU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUC	26983

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6101	4929	ACGUUCUU A ACGUUCUU	8608	AAGAACGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGU	26984
6106	4924	CUUAACGU U CUUGCCAG	8609	CUGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUAAG	26985
6107	4923	UUAACGUU C UUGCCAGG	8610	CCUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUAA	26986
6109	4921	AACGUUCU U GCCAGGUU	8611	AACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUU	26987
6117	4913	UGCCAGGU U CCACCACA	8612	UGUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCA	26988
6118	4912	GCCAGGUU C CACCACAA	8613	UUGUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AACCUGGC	26989
6128	4902	ACCACAAU C AUCUGCAC	8614	GUGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGGU	26990
6131	4899	ACAAUCAU C UGCACCUC	8615	GAGGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGU	26991
6139	4891	CUGCACCUC C AUCCUGCC	8616	GGCAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCAG	26992
6142	4888	CACCUCAU C CUGCCCGU	8617	ACGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGUG	26993
6151	4879	CUGCCCGU U CCACUUGU	8618	ACAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGGGCAG	26994
6152	4878	UGCCCGUU C CACUUGUG	8619	CACAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AACGGGCA	26995
6157	4873	GUUCCACU U GUGCUGCA	8620	UGCAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAC	26996
6168	4862	GCUGCAAU U UCCAGGGU	8621	ACCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGC	26997
6169	4861	CUGCAAUU U CCAGGGUC	8622	GACCCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	26998
6170	4860	UGCAAUUU C CAGGGUCC	8623	GGACCCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCA	26999
6177	4853	UCCAGGGU C CUCCGUAA	8624	UUACGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGA	27000
6180	4850	AGGGUCCU C CGUAACAA	8625	UUGUUAAC CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCU	27001
6184	4846	UCCUCCGU A ACAAGUC	8626	GACUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGGA	27002
6192	4838	AACAAAGU C GAUCCUCC	8627	GGAGGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGUU	27003
6196	4834	AAGUCGAU C CUCCUUGA	8628	UCAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUCGACTU	27004
6199	4831	UCGAUCCU C CUUGACAC	8629	GUGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAUCGA	27005
6202	4828	AUCCUCCU U GACACUGC	8630	GUGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAU	27006
6217	4813	GCCCCAGU A UGGGUCCA	8631	UGGACCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGGC	27007
6223	4807	GUAUGGGU C CAGGCGGC	8632	GCCGCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAUAC	27008
6235	4795	GCGGCCCU C UCCGCUCA	8633	UGAGCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCGC	27009
6237	4793	GGCCUCUC C CGCUCAUC	8634	GAUGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGCC	27010
6242	4788	UCUCCGCU C AUCAAAGC	8635	GCUUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGGAGA	27011
6245	4785	CCGCUCAU C AAAGCGGC	8636	GCCGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCGG	27012
6255	4775	AAGCGGCU C CUUUUGUU	8637	AACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCUU	27013
6258	4772	CGGCUCCU U UUGUUGUA	8638	UACAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGG	27014
6259	4771	GGCUCUUU U UGUUGUAU	8639	AUACAACA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGCC	27015
6260	4770	GCUCUUUU U GUUGUAUG	8640	CAUACAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGC	27016
6263	4767	CCUUUUGU U GUAUGCCA	8641	UGGCAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGG	27017
6266	4764	UUUGUUGU A UGCCAAG	8642	CUUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAA	27018
6291	4739	AAACACCU U CAACCAUC	8643	GAUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUU	27019
6292	4738	AACACCUU C AACCAUCA	8644	UGAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUU	27020
6299	4731	UCAACCAU C ACGCCCGC	8645	GCGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUGA	27021
6309	4721	CGCCCGCU C CUGCUUGA	8646	UCAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGGGCG	27022
6315	4715	CUCCUGCU U GAUAACUG	8647	CAGUUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGAG	27023
6319	4711	UGCUGAU A ACUGCCGA	8648	UCGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGCA	27024
6341	4689	CCACGAGU C AUGAUCCU	8649	AGGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCGUGG	27025
6347	4683	GUCAUGAU C CUGUAGAC	8650	GUCUACAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAC	27026
6352	4678	GAUCCUGU A GAGCCCGG	8651	CCGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUC	27027
6365	4665	CCGGUGGU C GUGUCCCC	8652	GGGGACAC CUGAUGAG	GCCGUUAGGC	CGAA ACCACCGG	27028
6370	4660	GGUCGUGU C CCCUUUUU	8653	AAAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACACGACC	27029
6376	4654	GUCCCCCU U UUUGUACU	8654	AGUACAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGAC	27030
6377	4653	UCCCCCUU U UUGUACUC	8655	GAGUACAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGGA	27031
6378	4652	CCCCCUUU U UGUACUCC	8656	GGAGUACA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGGG	27032
6379	4651	CCCCUUUU U GUACUCCU	8657	AGGAGUAC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGGG	27033
6382	4648	CUUUUUGU A CUCCUUUG	8658	CAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAAG	27034
6385	4645	UUUGUACU C CUUUGGUG	8659	CACCAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUACAAA	27035
6388	4642	GUACUCCU U UGGUGAGG	8660	CCUCACCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUAC	27036
6389	4641	UACUCCUU U GGUGAGGG	8661	CCUCUACC CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUA	27037
6403	4627	GGGAGUGU C CCACAACA	8662	UGUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCC	27038
6417	4613	ACACGCCU C CUCUCUUU	8663	AAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUGU	27039
6420	4610	CGCCUCCU C UCUUUGUG	8664	CACAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGCG	27040
6422	4608	CCUCUCUC C UUUGUGUA	8665	UACACAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGG	27041
6424	4606	UCCUCUCU U UGUGUAUU	8666	AAUACACA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGGA	27042
6425	4605	CCUCUCUU U GUGUAUUG	8667	CAAUACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGG	27043
6430	4600	CUUUGUGU A UUGGAGAG	8668	CUCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAG	27044
6432	4598	UUGUGUAU U GGAGAGUU	8669	AACUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUACACAA	27045

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6440	4590	UGGAGAGU U AUCCAAAA	8670	UUUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCA	27046
6441	4589	GGAGAGUU A UCCAAAAU	8671	AUUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AACUCUCC	27047
6443	4587	AGAGUUUU C CAAAAUCC	8672	GGAUUUUU CUGAUGAG	GCCGUUAGGC	CGAA AUAACUCU	27048
6450	4580	UCCAAAAU C CAACUACU	8673	AGUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGA	27049
6456	4574	AUCCAAAU A CUGAGGGC	8674	GCCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGAU	27050
6470	4560	GGCAAGAU U GCCCAGGG	8675	CCCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGCC	27051
6484	4546	GGGGGUGU A CGCACUAA	8676	UUAGUGCG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCCC	27052
6491	4539	UACGCACU A AUCGCGAG	8677	CUCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AGUGCGUA	27053
6494	4536	GCACUAAU C GCGAGACA	8678	UGUCUCGC CUGAUGAG	GCCGUUAGGC	CGAA AUUAGUGC	27054
6509	4521	CAGACCAU U CUGAGCAU	8679	AUGCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCUG	27055
6510	4520	AGACCAAU C UGAGCAUC	8680	GAUGCACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUCU	27056
6518	4512	CUGAGCAU C CAUAUCUU	8681	AAGAUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCAG	27057
6522	4508	GCAUCCAU A UCUUCCAA	8682	UUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGC	27058
6524	4506	AUCCAUUU C UUCCAAGG	8683	CCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGAU	27059
6526	4504	CCAUAUCU U CCAAGGUG	8684	CACCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUUGG	27060
6527	4503	CAUAUCUU C CAAGGUGC	8685	GCACCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUUUG	27061
6537	4493	AAGGUGCU C CUGGAUCA	8686	UGAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCACCUC	27062
6544	4486	UCCUGGAU C AUUCAUGA	8687	UCAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGGA	27063
6547	4483	UGGAUCAU U CAUGAGCU	8688	AGCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCCA	27064
6548	4482	GGAUCAUU C AUGAGCUG	8689	CAGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGAUCC	27065
6562	4468	CUGGAAGU U UCCAUCAU	8690	AUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAG	27066
6563	4467	UGGAAGUU U CCAUCAUC	8691	GAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AACUCCA	27067
6564	4466	GGAAGUUU C CAUCAUCA	8692	UGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAACUCC	27068
6568	4462	GUUCCAUA C AUCAUCAA	8693	UUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAAC	27069
6571	4459	UCCAUCAU C AUCAAGCC	8694	GGCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGA	27070
6574	4456	AUCAUCAU C AAGCCGCA	8695	UGCGGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAU	27071
6586	4444	CCGCACAU C AACUCUUU	8696	AAAGAGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCGG	27072
6591	4439	CAUCAACU C UUUCGCUC	8697	GAGCGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAUG	27073
6593	4437	UCAAUCUU U UCGCUCGA	8698	UCGAGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUGA	27074
6594	4436	CAACUCUU U CGCUCGAG	8699	UCCGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUUG	27075
6595	4435	AACUCUUU C GCUCGAGC	8700	GCUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUU	27076
6599	4431	CUUUCGCU C GAGCCUGU	8701	ACAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCGAAAG	27077
6608	4422	GAGCCUGU A AUUUCUGC	8702	GCAGAAAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGGCUC	27078
6611	4419	CCUGUAAU U UCUGCAUC	8703	GAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUUACAGG	27079
6612	4418	CUGUAAUU U CUGCAUCA	8704	UGAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAG	27080
6613	4417	UGUAAUUU C UGCAUCAC	8705	GUGAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAUACA	27081
6619	4411	UUCUGCAU C ACUUUCCC	8706	GGGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGAA	27082
6623	4407	GCAUCACU U UCCAGGA	8707	UCCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGC	27083
6624	4406	CAUCACUU U CCCAGGAA	8708	UUCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	27084
6625	4405	AUCACUUU C CCAGGAAA	8709	UUUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGAU	27085
6637	4393	GGAAGUUG C CGCCGUUC	8710	GAACGGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUCC	27086
6644	4386	UCCGCCGU U CUCUCAAU	8711	AUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ACGGCGGA	27087
6645	4385	CCGCCGUU C UCUCAAUC	8712	GAUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA AACGGCGG	27088
6647	4383	GCCGUUCU C UCAAUCCA	8713	UGGAUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACGGC	27089
6649	4381	CGUUCUCU C AAUCCACA	8714	UUGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA AGAGAACG	27090
6653	4377	CUCUCAAU C CACAUAUC	8715	GAUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGAG	27091
6659	4371	AUCCACAU A UCUGUUGA	8716	UCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAU	27092
6661	4369	CCACAUAU C UGUUGAUU	8717	AAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGUGG	27093
6665	4365	AUAUCUGU U GAUUUCCC	8718	GGGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUUU	27094
6669	4361	CUGUUGAU U UCCAGGAA	8719	UUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCAACAG	27095
6670	4360	UGUUGAUU U CCCAGAAA	8720	UUUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUCAACA	27096
6671	4359	GUUGAUUU C CCAGAAAU	8721	AUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUAC	27097
6680	4350	CCAGAAAU C ACGAAAGC	8722	GCUUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUGG	27098
6710	4320	CCCAGCAU A GUCAUUGG	8723	CCAAUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGCGG	27099
6713	4317	GCGAUAGU C AUUGGAUU	8724	AUUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCGC	27100
6716	4314	AUAGUCAU U GGAAUGGC	8725	GCCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGACUUA	27101
6733	4297	CAUGGAGU C AAUGUCAA	8726	UUGACAUA CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAUG	27102
6739	4291	GUCAAUGU C AAGCUCUG	8727	CAGAGCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGAC	27103
6745	4285	GUCAAAGU C UGCCAGCC	8728	GGCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGAC	27104
6756	4274	CCAGCCCU C CGACGAUG	8729	CAUCGUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUGG	27105
6773	4257	GCAAACAU U AGGCCGAC	8730	GUCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUUGC	27106
6774	4256	CAAACAUA A GGCCGACA	8731	UGUCGGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUUG	27107

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6788	4242	ACAGCUGU C AUCACUUC	8732	GAAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGU	27108
6791	4239	GCUGUCAU C ACUUCAGU	8733	ACUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACAGC	27109
6795	4235	UCAUCACU U CAGUUGCG	8734	CGCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGA	27110
6796	4234	CAUCACUU C AGUUGCGG	8735	CCGCAACU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	27111
6800	4230	ACUUCAGU U GCGGGCCA	8736	UGGCCCCG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAGU	27112
6810	4220	CGGGCCAU C CGCGUUUA	8737	UAAACGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCCG	27113
6816	4214	AUCGCGGU U UACGGUUG	8738	CAACCGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCGGAU	27114
6817	4213	UCCGCGUU U ACGGUUGG	8739	CCAACCGU CUGAUGAG	GCCGUUAGGC	CGAA AACCGCGA	27115
6818	4212	CCGCGUUU A CGGUUGGG	8740	CCCAACCG CUGAUGAG	GCCGUUAGGC	CGAA AAACGCGG	27116
6823	4207	UUUACGGU U GGGAUAC	8741	GUGAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAAA	27117
6829	4201	GUUGGGAU C ACAUGCAA	8742	UUGCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAAC	27118
6839	4191	CAUGCAAU C AGUCCAGC	8743	GCUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAUG	27119
6843	4187	CAAUCAGU C CAGCAGCA	8744	UGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUUG	27120
6857	4173	GCAAGGAU C AUGGGGUU	8745	AACCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUUGC	27121
6865	4165	CAUGGGGU U GAAAAGUC	8746	GACUUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAUG	27122
6873	4157	UGAAAAGU C CUGUUGAG	8747	CUCAACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUUUCA	27123
6878	4152	AGUCCUGU U GAGGCUAG	8748	CUAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGACU	27124
6885	4145	UUGAGGCU A GAGCCAAG	8749	CUUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCA	27125
6897	4133	CCAAGCAU A GCAGACUU	8750	AAGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGG	27126
6905	4125	AGCAGACU U GCUCUUUU	8751	AAAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUGCU	27127
6909	4121	GACUUGCU C CUUUCUUU	8752	AAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAGUC	27128
6912	4118	UUGCUCCU U UCUUUUUU	8753	AAAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAA	27129
6913	4117	UGCUCUUU U CUUUUUUG	8754	CAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGCA	27130
6914	4116	GCUCUUUU C UUUUUUGC	8755	GCAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGC	27131
6916	4114	UCCUUUCU U UUUUGCAG	8756	CUGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGA	27132
6917	4113	CCUUUCUU U UUUGCAGC	8757	GCUGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGG	27133
6918	4112	CUUUCUUU U UUGCAGCU	8758	AGCUGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	27134
6919	4111	UUUCUUUU U UGCAGCUG	8759	CAGCUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAAA	27135
6920	4110	UUCUUUUU U GCAGCUGC	8760	GCAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAAA	27136
6932	4098	GCUGACAU C CUCUUCUC	8761	GAGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGC	27137
6935	4095	GCACUCCU C UUCUCCCU	8762	AGGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGUC	27138
6937	4093	ACUCCUCU U CUCCUGA	8763	UCAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGU	27139
6938	4092	CUCCUCUU C UCCUGAU	8764	AUCAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27140
6940	4090	CCUCUUCU C CCUGAUCA	8765	UGAUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGG	27141
6947	4083	UCCUGAUU C AAGCUGCC	8766	GGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGGA	27142
6957	4073	AGCUGCCU A UUCGACC	8767	GGUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGCU	27143
6959	4071	CUGCCUAU U CCGACCAU	8768	AUGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA AUAGGCAG	27144
6960	4070	UGCCUAUU C CGACCAUC	8769	GAUGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGGCA	27145
6968	4062	CCGACCAU C AACAGCAG	8770	CUGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCGG	27146
6978	4052	ACAGCAGU A UCCUGUAC	8771	GUACAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUGU	27147
6980	4050	AGCAGUAU C CUGUACAC	8772	GUGUACAG CUGAUGAG	GCCGUUAGGC	CGAA AUACUGCU	27148
6985	4045	UAUCCUGU A CACAUCCA	8773	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUA	27149
6991	4039	GUACACAU C CAGAUUCA	8774	UGAAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUAC	27150
6997	4033	AUCCAGAU U CAAGCAUC	8775	GAUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUGGAU	27151
6998	4032	UCCAGAUU C AAGCAUCU	8776	AGAUGC UU CUGAUGAG	GCCGUUAGGC	CGAA AAUCUGGA	27152
7005	4025	UCAAGCAU C UCAGCCCG	8777	CGGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGA	27153
7007	4023	AAGCAUCU C AGCCCGGG	8778	CCCGGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGC UU	27154
7019	4011	CCGGGUGU U AGCAGGGC	8779	GCCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACACCCGG	27155
7020	4010	CGGGUGUU A GCAGGCU	8780	AGCCUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACACCCG	27156
7029	4001	GCAGGGCU A GCAGCGGA	8781	UCCGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGC	27157
7048	3982	AACCACGU U UGAUGUCG	8782	CGACAUCA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGUU	27158
7049	3981	ACCACGUU U GAUGUCGU	8783	ACGACAUC CUGAUGAG	GCCGUUAGGC	CGAA AACGUGGU	27159
7055	3975	UUUGAUGU C GUUGUGAA	8784	UUCACAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAA	27160
7058	3972	GAUGUCGU U GUGAAUGU	8785	ACAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACGACAUC	27161
7067	3963	GUGAAUGU U AUGGCUCU	8786	AGAGCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCAC	27162
7068	3962	UGAAUGUU A UGGCUCUC	8787	GAGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUCA	27163
7074	3956	UUUAGGCU C UCAGUAUC	8788	GAUACUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUAA	27164
7076	3954	AUGGCUCU C AGUAUCAU	8789	AUGAUACU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCAU	27165
7080	3950	CUCUCAGU A UCAUCCAA	8790	UUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAG	27166
7082	3948	CUCAGUAU C AUCCAAGC	8791	GUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUACUGAG	27167
7085	3945	AGUAUCAU C CAAGCUAC	8792	GUAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUACU	27168
7092	3938	UCCAAGCU A CCGCCAGU	8793	ACUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	27169

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7105	3925	CAGUGAAU U CAACACAU	8794	AUGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCACUG	27170
7106	3924	AGUGAAUU C AACACAUC	8795	GAUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCACU	27171
7114	3916	CAACACAU C AGGGAUCU	8796	AGAUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUG	27172
7121	3909	UCAGGGAU C UCCCAGAG	8797	CUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCCUGA	27173
7123	3907	AGGGAUCU C CCAGAGCA	8798	UGCUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCCU	27174
7136	3894	AGCAGAAU U UGGCGGGC	8799	GCCCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCU	27175
7137	3893	GCAGAAUU U GGC GGCA	8800	UGCCCGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGC	27176
7147	3883	GCGGGCAU C GUGAUAG	8801	CUUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCGC	27177
7153	3877	AUCGUGAU A AGCCAUUU	8802	AAAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAU	27178
7160	3870	UAAGCCAU U UGAAAGAA	8803	UUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUUA	27179
7161	3869	AAGCCAUU U GAAAGAAA	8804	UUUCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCUU	27180
7184	3846	GCCAAACAU C AACAAAU	8805	AUUUUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGGC	27181
7195	3835	CAAAAUUGU U CUCCUGGU	8806	ACCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUUG	27182
7196	3834	AAAUGUUGU C UCCUGGUU	8807	AACCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUUU	27183
7198	3832	AAUGUUCU C CUGGUUGG	8808	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAUU	27184
7204	3826	CUCCUGGU U GGUCCAUC	8809	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAG	27185
7208	3822	UGGUUGGU C CAUCUCGC	8810	GCGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	27186
7212	3818	UGGUCCAUC C UCGCUUUG	8811	CAAAGCGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	27187
7214	3816	GUCCAUCU C GCUUUGAG	8812	CUCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAC	27188
7218	3812	AUCUCGCU U UGAGAAAC	8813	GUUUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGAGAU	27189
7219	3811	UCUCGCUU U GAGAAACG	8814	CGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCGAGA	27190
7238	3792	GCCACCAU A AACACUGG	8815	CCAGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGGC	27191
7248	3782	ACACUGGU U GUUUCUUG	8816	CAAGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGU	27192
7251	3779	CUGGUUGU A UCUUGAAG	8817	CUUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAG	27193
7253	3777	GGUUGUUAU C UUGAAGGU	8818	ACCUUCA A CUGAUGAG	GCCGUUAGGC	CGAA AUACAACC	27194
7255	3775	UUGUAUCU U GAAGGUCG	8819	CGACCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUACAA	27195
7262	3768	UUGAAGGU C GCCAUGAG	8820	CUCAUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCAA	27196
7281	3749	CCAAGUGU A CCACGUCU	8821	AGACGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACUUGG	27197
7288	3742	UACCACGU C UCCUCCCG	8822	CGGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGUA	27198
7290	3740	CCACGUCU C CUCCCGAA	8823	UUCGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUGG	27199
7293	3737	CGUCUCCU C CCGAAUUA	8824	UAAUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGACG	27200
7300	3730	UCCCGAAU U AGAUUCUG	8825	CAGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGGGA	27201
7301	3729	CCCGAAUU A GAUUCUGC	8826	GCAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGGG	27202
7305	3725	AAUUGAAU U CUGCGAAA	8827	UUUCGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCUAAUU	27203
7306	3724	AUUAGAAU C UGCGAAAG	8828	CUUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCUAAU	27204
7336	3694	GAUGACAU A GCGUAACA	8829	UGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAUC	27205
7341	3689	CAUAGCGU A ACACAUCA	8830	UGAUGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGCUAUG	27206
7348	3682	UAACACAU C AGUGUAAG	8831	CUUACAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUA	27207
7354	3676	AUCAGUGU A AGUAAUGC	8832	GCAUUAUC CUGAUGAG	GCCGUUAGGC	CGAA ACACUGAU	27208
7358	3672	GUGUAAGU A AUGCCCCC	8833	GGGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACTUACAC	27209
7380	3650	CCAGGACU A GCAGAGCA	8834	UGCUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGG	27210
7391	3639	AGAGCAAU C AGUAUAGC	8835	GUUAUACU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCUCU	27211
7395	3635	CAAUCAGU A UAGCUGGC	8836	GCCAGCUA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUUG	27212
7397	3633	AUCAGUAU A GCUGGCAU	8837	AUGCCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUACUGAU	27213
7412	3618	AUGCUGAU C UUGGCUGU	8838	ACAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	27214
7414	3616	GCUGAUCU U GGCUGUCC	8839	GGACAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGC	27215
7421	3609	UUGGCUGU C CACCUCUU	8840	AAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCAA	27216
7427	3603	GUCCACCU C UUGCGAAG	8841	CUUCGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGAC	27217
7429	3601	CCACCUCU U GCGAAGGA	8842	UCCUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGG	27218
7441	3589	AAGGACCU C CUGGGUGG	8843	CCACCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCUU	27219
7486	3544	AAAAGGGU C AAUCAUUA	8844	AUAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUUU	27220
7490	3540	GGGUCAAU C AUAUCAGC	8845	GCUGAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUGACCC	27221
7493	3537	UCAUAUUA C UCAGCAUU	8846	AAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUAUGAUA	27222
7495	3535	AAUCAUUA C AGCAUUAU	8847	AUAUUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUAUGAAU	27223
7501	3529	AUCAGCAU U AUAAGCAU	8848	AUGCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAU	27224
7502	3528	UCAGCAUU A UAAGCAUU	8849	AAUGCUUA CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUGA	27225
7504	3526	AGCAUUAU A AGCAUUAU	8850	UGAAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUAUUGCU	27226
7510	3520	AUAAGCAU U CACUUGUG	8851	CACAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUAU	27227
7511	3519	UAAGCAUU C ACUUGUGA	8852	UCACAAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUUA	27228
7515	3515	CAUUCACU U GUGACUGC	8853	GCAGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAUG	27229
7532	3498	ACCAGGGU C UUUUCAUC	8854	GAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGCU	27230
7534	3496	GAGGGUCU U UUCAUCAU	8855	AUGAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGACCCUC	27231

7535	3495	AGGGUCUU	U	UCAUCAUG	8856	CAUGAUGA	CUGAUGAG	GCCGUUAGGC	CGAA	AAGACCCU	27232
7536	3494	GGGUCUUU	U	CAUCAUGU	8857	ACAUGAUG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGACCC	27233
7537	3493	GGUCUUUU	C	AUCAUGUC	8858	GACAUGAU	CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGACC	27234
7540	3490	CUUUUCAU	C	AUGUCUCU	8859	AGAGACAU	CUGAUGAG	GCCGUUAGGC	CGAA	AUGAAAAG	27235
7545	3485	CAUCAUGU	C	UCUGUGGU	8860	ACCACAGA	CUGAUGAG	GCCGUUAGGC	CGAA	ACAUGAUG	27236
7547	3483	UCAUGUCU	C	UGUGGUCU	8861	AGACCACA	CUGAUGAG	GCCGUUAGGC	CGAA	AGACAUGA	27237
7554	3476	UCUGUGGU	C	UGAUCUCC	8862	GGAGAUCA	CUGAUGAG	GCCGUUAGGC	CGAA	ACCACAGA	27238
7559	3471	GGUCUGAU	C	UCCAUAAC	8863	GGUAUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGACC	27239
7561	3469	UCUGAUCU	C	CAUACCAU	8864	AUGGUAUG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCAGA	27240
7565	3465	AUCUCCAU	A	CCAUAACA	8865	UGGUAUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAGAU	27241
7570	3460	CAUACCAU	A	CCAACAGC	8866	GCUGUUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUAUG	27242
7585	3445	GCCGUGU	C	AGUUGUGU	8867	ACCAAACU	CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCGGC	27243
7589	3441	CUGUCAGU	U	UGGUAAGC	8868	CGCUACCA	CUGAUGAG	GCCGUUAGGC	CGAA	ACUGACAG	27244
7590	3440	UGUCAGUU	U	GGUAAGCG	8869	GCGCUACC	CUGAUGAG	GCCGUUAGGC	CGAA	AACUGACA	27245
7594	3436	AGUUGUGU	A	GCGCAGUG	8870	CACUGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAACU	27246
7608	3422	GUGGUGGU	A	AGGUGCAG	8871	CUGCACCU	CUGAUGAG	GCCGUUAGGC	CGAA	ACCACCAC	27247
7619	3411	GUGCAGCU	C	CUGCAGCA	8872	UGCUGCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGCAC	27248
7633	3397	GCACCAAU	C	UGUUAUCA	8873	UGAUAACA	CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGUGC	27249
7637	3393	CAAUCUGU	U	AUCAACUU	8874	AAGUUGAU	CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAUUG	27250
7638	3392	AAUCUGUU	A	UCAACUUU	8875	AAAGUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGUU	27251
7640	3390	UCUGUUAU	C	AACUUUCC	8876	GGAAAGUU	CUGAUGAG	GCCGUUAGGC	CGAA	AUAACAGA	27252
7645	3385	UAUCAACU	U	UCCGCUCU	8877	AGAGCGGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGAUA	27253
7646	3384	AUCAACUU	U	CCGCUCUC	8878	GAGAGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	AAGUUGAU	27254
7647	3383	UCAACUUU	C	CGCUCUCU	8879	AGAGAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUUGA	27255
7652	3378	UUUCCGCU	C	UCUGUGGU	8880	ACCACAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGGAAA	27256
7654	3376	UCCGCUCU	C	UGUGGUGG	8881	CCACCACA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCGGA	27257
7677	3353	UGGCAGGU	C	CACGGUGU	8882	ACACCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGCCA	27258
7686	3344	CACGGUGU	C	CGCAGCUC	8883	GAGCUGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACCGUG	27259
7694	3336	CCGCAGCU	C	UCACUCAG	8884	CUGAGUGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGCGG	27260
7696	3334	GCAGCUCU	C	ACUCAGGG	8885	CCCUGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUGC	27261
7700	3330	CUCUCACU	C	AGGGUGAC	8886	GUCACCCU	CUGAUGAG	GCCGUUAGGC	CGAA	AGUGAGAG	27262
7712	3318	GUGACCGU	A	GUUCCUGG	8887	CCAGGAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ACGGUCAC	27263
7715	3315	ACCGUAGU	U	CCUGGGCA	8888	UGCCCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACUACGGU	27264
7716	3314	CCGUAGUU	C	CUGGGCAG	8889	CUGCCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AACUACGG	27265
7726	3304	UGGGCAGU	A	AUCGAAGU	8890	ACUUCGAU	CUGAUGAG	GCCGUUAGGC	CGAA	ACUGCCCA	27266
7729	3301	GCAGUAAU	C	GAAGUCAA	8891	UUGACUUC	CUGAUGAG	GCCGUUAGGC	CGAA	AUUACUGC	27267
7735	3295	AUCGAAGU	C	AAUCUCUA	8892	UAGAGAUU	CUGAUGAG	GCCGUUAGGC	CGAA	ACUUCGAU	27268
7739	3291	AAGUCAAU	C	UCUACCCG	8893	CGGGUAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AUUGACUU	27269
7741	3289	GUCAAUCU	C	UACCCGGC	8894	GCCGGGUA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAUUGAC	27270
7743	3287	CAAUCUCU	A	CCCGCCCU	8895	AGGCCGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAUUG	27271
7752	3278	CCCGGCCU	U	CGUCCCAU	8896	AUGGGACG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCGGG	27272
7753	3277	CCGGCCUU	C	GUCCCAUG	8897	CAUGGGAC	CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCCGG	27273
7756	3274	GCCUUCGU	C	CCAUGGGC	8898	GCCCAUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACGAAGGC	27274
7771	3259	GCCUUGGU	U	UUGUGUCU	8899	AGACACAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGGGC	27275
7772	3258	CCCUUGGU	U	UGUGUCUU	8900	AAGACACA	CUGAUGAG	GCCGUUAGGC	CGAA	AACCAGGG	27276
7773	3257	CCUGGUUU	U	GUGUCUUG	8901	CAAGACAC	CUGAUGAG	GCCGUUAGGC	CGAA	AAACCAGG	27277
7778	3252	UUUUGUGU	C	UUGUACCC	8902	GGGUACAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACACAAAA	27278
7780	3250	UUGUGUCU	U	GUACCCAG	8903	CUGGGUAC	CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAA	27279
7783	3247	UGUCUUGU	A	CCCAGGUC	8904	GACCUGGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGACA	27280
7791	3239	ACCCAGGU	C	UCCGAUUG	8905	CAAUCCGA	CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGGGU	27281
7793	3237	CCAGGUCU	C	CGAUUGUG	8906	CACAAUCG	CUGAUGAG	GCCGUUAGGC	CGAA	AGACUGGG	27282
7798	3232	UCUCCGAU	U	GUGAUUGC	8907	GCAAUACAC	CUGAUGAG	GCCGUUAGGC	CGAA	AUCGGAGA	27283
7804	3226	AUUGUGAU	U	GCUUCGUG	8908	CACGAAGC	CUGAUGAG	GCCGUUAGGC	CGAA	AUCACAAU	27284
7808	3222	UGAUUGCU	U	CGUGGUCC	8909	GGACCACG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCAAUCA	27285
7809	3221	GAUUGCUU	C	GUGGUCCC	8910	GGGACCAC	CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAAUC	27286
7815	3215	UUCGUGGU	C	CCGCCAGU	8911	ACUGGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ACCACGAA	27287
7833	3197	UGACUGGU	A	UUAUCAAG	8912	CUUGAUAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGUCA	27288
7835	3195	ACUGGUAU	U	AUCAAGUC	8913	GACTUGAU	CUGAUGAG	GCCGUUAGGC	CGAA	AUACCAGU	27289
7836	3194	CUGGUAAU	A	UCAAGUCA	8914	UGACUAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AAUACCAG	27290
7838	3192	GGUAUUAU	C	AAGUCACU	8915	AGUGACUU	CUGAUGAG	GCCGUUAGGC	CGAA	AUAUAUAC	27291
7843	3187	UAUCAAGU	C	ACUCUCAA	8916	UUGAGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGAUA	27292
7847	3183	AAGUCACU	C	UCAAGGAU	8917	AUCCUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGUGACUU	27293

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7849	3181	GUCACUCU C AAGGAUUC	8918	GAAUCCUU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUGAC	27294
7856	3174	UCAAGGAU U CCAUCGCC	8919	GGCGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUCCUUGA	27295
7857	3173	CAAGGAU C CAUCGCCC	8920	GGGCGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUCCUUG	27296
7861	3169	GAUUCCAU C GCCCCACA	8921	UGUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAUC	27297
7874	3156	CACAAGGU A UGCGUCUC	8922	GAGACGCA CUGAUGAG	GCCGUUAGGC	CGAA	ACCUUGUG	27298
7880	3150	GUAUGCGU C UCAGGCCA	8923	UGGCCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGCAUAC	27299
7882	3148	AUGCGUCU C AGGCCACG	8924	CGUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA	AGACGCAU	27300
7892	3138	GGCCACGU A CAUGAUUU	8925	AAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGGCC	27301
7899	3131	UACAUGAU U UGACUUA	8926	UGAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUGUA	27302
7900	3130	ACAUGAUU U GACUUCAC	8927	GUGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA	AAUCAUGU	27303
7905	3125	AUUUGACU U CACCCAGA	8928	UCUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUCAAAU	27304
7906	3124	UUUGACUU C ACCCAGAA	8929	UUCUGGGU CUGAUGAG	GCCGUUAGGC	CGAA	AAGUCAAA	27305
7922	3108	ACUGCCCU U UCAAGCUU	8930	AAGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGGCAGU	27306
7923	3107	CUGCCCUU U CAAGCUUC	8931	GAAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGGCAG	27307
7924	3106	UGCCCUUU C AAGCUUCC	8932	GGAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGGCA	27308
7930	3100	UUCAAGCU U CCACGUUU	8933	AUACGUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUGAA	27309
7931	3099	UCAAGCUU C CACGUUUC	8934	GAUACGUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUUGA	27310
7937	3093	UUCCACGU A UCAUUGAG	8935	CUCAAUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGGAA	27311
7939	3091	CCACGUUU C AUUGAGCC	8936	GGCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA	AUACGUGG	27312
7942	3088	CGUAUCAU U GAGCCUGC	8937	GCAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUACG	27313
7952	3078	AGCCUGCU U UCAAUCCA	8938	UGGAUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGGCU	27314
7953	3077	GCCUGCUU U CAUCCAA	8939	UUGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGGC	27315
7954	3076	CCUGCUUU C AAUCCAAU	8940	AUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCAGG	27316
7958	3072	CUUCAAU C CAUAGGA	8941	UCCUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGAAAG	27317
7963	3067	AAUCCAAU A GGACAGGU	8942	ACCUGUCC CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGAUU	27318
7972	3058	GGACAGGU C ACUGUGGA	8943	UCCACAGU CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGUCC	27319
7982	3048	CUGUGGAU C GCCAAGUU	8944	AACUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCCACAG	27320
7990	3040	CGCCAAGU U GUUCUUGA	8945	UCAAGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGGCG	27321
7993	3037	CAAGUUGU U CUUGACAG	8946	CUGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAACUUG	27322
7994	3036	AAGUUGUU C UUGACAGC	8947	GCUUGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AAACAACU	27323
7996	3034	GUUGUUCU U GACAGCCG	8948	CGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAAC	27324
8006	3024	ACAGCCGU U CCAUGAU	8949	AUCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACGGCUGU	27325
8007	3023	CAGCCGUU C CAAUGAUC	8950	GAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AACGGCUG	27326
8015	3015	CCAUGAU C UUCGAGUC	8951	GACUCGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUUGG	27327
8017	3013	AAUGAUUU U CGAGUCAC	8952	GUGACUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUAUUU	27328
8018	3012	AUGAUUUU C GAGUCACA	8953	UGUGACUC CUGAUGAG	GCCGUUAGGC	CGAA	AAGAUAUU	27329
8023	3007	CUUCGAGU C ACAUUCAG	8954	CUGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA	ACUCGAAG	27330
8028	3002	AGUCAAU U CAGUUGUG	8955	CACAACUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGACU	27331
8029	3001	GUCACAUU C AGUUGUGU	8956	ACACAACU CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUGAC	27332
8033	2997	CAUUCAGU U GUGUUGCU	8957	AGCAACAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUGAAUG	27333
8038	2992	AGUUGUGU U GCUCUCUC	8958	GAGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ACACAACU	27334
8042	2988	GUGUUGCU C UCUCUGAC	8959	GUCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAACAC	27335
8044	2986	GUUGCUCU C UCUGACCU	8960	AGGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCAAC	27336
8046	2984	UGCUCUCU C UGACCUUC	8961	GAAGGUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAGCA	27337
8053	2977	UCUGACCU U CAGGAACA	8962	UGUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCAGA	27338
8054	2976	CUGACCUU C AGGAACAU	8963	AUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	AAGGUCAG	27339
8063	2967	AGGAACAU C CGAGUGCU	8964	AGCACUCG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUUCU	27340
8085	2945	GACCAAAU C CAAAUCC	8965	GGAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGGUC	27341
8092	2938	UCCAAAUA C CUCCACUU	8966	AAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUGGA	27342
8095	2935	AAAUCCU C CACUUCUA	8967	UAGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUUU	27343
8100	2930	CCUCCACU U CUAAGCUA	8968	UAGCUUAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGAGG	27344
8101	2929	CUCCACUU C UAAGCUAU	8969	AUAGCUUA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGGAG	27345
8103	2927	CCACUUU A AGCUAUUC	8970	GAAUAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUGG	27346
8108	2922	UCUAAGCU A UUCAAGC	8971	GCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUAGA	27347
8110	2920	UAAGCUAU U CCAAGCGC	8972	GCGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUAGCUUA	27348
8111	2919	AAGCUAUU C CAAGCGCG	8973	CGCGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUAGCUU	27349
8122	2908	AGCGCGAU U CUGAGUCG	8974	CGACUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AUCGCGCU	27350
8123	2907	GCGCGAUU C UGAGUCGG	8975	CCGACUCA CUGAUGAG	GCCGUUAGGC	CGAA	AAUCGCGC	27351
8129	2901	UUCUGAGU C GGACAUUC	8976	GAAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA	ACUCAGAA	27352
8136	2894	UCGGACAU U CCUUGGUC	8977	GACCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCCGA	27353
8137	2893	CGGACAUU C CUUGGUCU	8978	AGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUCCG	27354
8140	2890	ACAUUCU U GGUCUCCG	8979	CGGAGACC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAUGU	27355

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8144	2886	UCCUUGGU C UCCGACC	8980	GGUCCGGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAGGA	27356
8146	2884	CUUGGUCU C CGGACCAU	8981	AUGGUCCG CUGAUGAG	GCCGUUAGGC	CGAA AGACCAAG	27357
8155	2875	CGGACCAU C AACCACAA	8982	UUGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCCG	27358
8170	2860	AAAGGUGU U GUUGGCGA	8983	UCGCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACACCUUU	27359
8173	2857	GGUGUUGU U GGCAGUUG	8984	AACUCGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAACACC	27360
8181	2849	UGGCGAGU U CUGGUGCA	8985	UGCACCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCGCCA	27361
8182	2848	GGCGAGUU C UGUGGCAA	8986	UUGCACC A CUGAUGAG	GCCGUUAGGC	CGAA AACUCGCC	27362
8193	2837	GUGCAAAU A AAUACUC	8987	GAGUAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGCAC	27363
8198	2832	AAUAAAAU A CUCUUCU	8988	GGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUAUU	27364
8201	2829	AAAAUACU C UUUCCCA	8989	UGGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUUU	27365
8203	2827	AAUACUCU U UCCCCAGG	8990	CCUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUAUU	27366
8204	2826	AUACUCUU U CCCAGGC	8991	GCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUAU	27367
8205	2825	UACUCUUU C CCCAGGCC	8992	GGCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUA	27368
8215	2815	CCAGGCCU U CCAGCCAA	8993	UUGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCCUGG	27369
8216	2814	CAGGCCUU C CAGCCAAU	8994	AUUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCUG	27370
8225	2805	CAGCCAAU U UCCAAUUU	8995	AAAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCUG	27371
8226	2804	AGCCAAUU U CCAAUUUU	8996	AAA AUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGCU	27372
8227	2803	GCCAAUUU C CAAUUUUU	8997	AAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGC	27373
8232	2798	UUUCCAAU U UUCCGUG	8998	CACGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGAAA	27374
8233	2797	UUCCAAUU U UUCCGUGG	8999	CCACGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAA	27375
8234	2796	UCCAAUUU U UCCGUGGU	9000	ACCACGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGA	27376
8235	2795	CCA AUUUU U CCGUGGUG	9001	CACCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGG	27377
8236	2794	CAAUUUUU C CGUGGUGG	9002	CCACCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUG	27378
8256	2774	UGAGGCGU U UAGGUGCU	9003	AGCACCUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCUCA	27379
8257	2773	GAGGCGUU U AGGUGCUG	9004	CAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AACGCCUC	27380
8258	2772	AGGCGUUU A GGUGUGA	9005	UCAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AAACGCCU	27381
8269	2761	UGCUGACU U GUACAUC	9006	GAAUGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGCA	27382
8272	2758	UGACUUGU A CAUCCCU	9007	AGGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUCA	27383
8276	2754	UUGUACAU U CCCUCCUG	9008	CAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGUACAA	27384
8277	2753	UGUAUUU C CCUCCUGU	9009	ACAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUACA	27385
8281	2749	CAUCCCU C CUGUUUCU	9010	AGAAACAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAUG	27386
8286	2744	CCUCCUGU U UCUCACC	9011	GGUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAGG	27387
8287	2743	CUCCUGUU U CUCAACCA	9012	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACAGGAG	27388
8288	2742	UCCUGUUU C UCAACCAC	9013	GUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGGA	27389
8290	2740	CUGUUUCU C AACCACGA	9014	UCGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACAG	27390
8303	2727	ACGACACU A AGGUCCAC	9015	GUGGACCU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCGU	27391
8308	2722	ACUAAGGU C CACACCAU	9016	AUGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAGU	27392
8317	2713	CACACCAU U CUCCUUA	9017	UGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGUG	27393
8318	2712	ACACCAUU C UCCUUA	9018	UUGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUGU	27394
8320	2710	ACCAUUCU C CUUCAAAA	9019	UUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGU	27395
8323	2707	AUUCUCCU U CAAAGAG	9020	CUCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAU	27396
8324	2706	UUCUCCUU C AAAAGAGU	9021	ACUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAA	27397
8335	2695	AAGAGUGU U CAGCUCGU	9022	ACGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCUU	27398
8336	2694	AGAGUGUU C AGCUCGUC	9023	GACGAGCU CUGAUGAG	GCCGUUAGGC	CGAA AACACUCU	27399
8341	2689	GUUCAGCU C GUCCUUA	9024	UGAAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGAAC	27400
8344	2686	CAGCUCGU C CUUCACUG	9025	CAGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAGCUG	27401
8347	2683	CUCGUCCU U CACUGCUU	9026	AAGCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGACGAG	27402
8348	2682	UCGUCCUU C ACUGCUUC	9027	GAAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGACGA	27403
8355	2675	UCACUGCU U CCCACAUU	9028	AAUGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGA	27404
8356	2674	CACUGCUU C CCACAUUU	9029	AAAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUG	27405
8363	2667	UCCCAUUA U UGAUGCUC	9030	GAGCAUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGGA	27406
8364	2666	CCCACAUU U GAUGCUCC	9031	GGAGCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUGGG	27407
8371	2659	UUGAUGCU C CAGUCUGG	9032	CCAGAGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCAA	27408
8376	2654	GCUCCAGU C UGGAAACU	9033	AGUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAGC	27409
8388	2642	AAACUGAU C GUAGACCG	9034	CGGUCUAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUUU	27410
8391	2639	CUGAUCGU A GACCGCAC	9035	GUGCGGUC CUGAUGAG	GCCGUUAGGC	CGAA ACGAUCAG	27411
8403	2627	CGCACACU C CUUCCUUA	9036	UAAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGCG	27412
8406	2624	ACACUCCU U CCUAUGA	9037	UCAUAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	27413
8407	2623	CACUCCUU C CUUAUGAG	9038	CUCAUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	27414
8410	2620	UCCUCCUU U AUGAGCUU	9039	AAGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGGA	27415
8411	2619	CCUCCUUU A UGAGCUUU	9040	AAAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAGG	27416
8418	2612	UAUGAGCU U UCUGAAUG	9041	CAUUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCAUA	27417

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8419	2611	AUGAGCUU U CUGAAUGA	9042	UCAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUCAU	27418
8420	2610	UGAGCUUU C UGAAUGAU	9043	AUCAUUC A CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCUCA	27419
8429	2601	UGAAUGAU C UUGGCUAG	9044	CUAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUUC A	27420
8431	2599	AAUGAUCU U GGCUAGGC	9045	GCCUAGCC CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCAU	27421
8436	2594	UCUUGGCU A GGCCUUGU	9046	ACAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCAAGA	27422
8442	2588	CUAGGCCU U GUGGCGUU	9047	AACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCUAG	27423
8450	2580	UGUGGCGU U UCAGGGUA	9048	UACCCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGCCACA	27424
8451	2579	GUGGCGUU U CAGGGUAA	9049	UUACCCUG CUGAUGAG	GCCGUUAGGC	CGAA	AACGCCAC	27425
8452	2578	UGGCGUUU C AGGGUAAU	9050	ADUACCCU CUGAUGAG	GCCGUUAGGC	CGAA	AAACGCCA	27426
8458	2572	UUCAGGGU A AUACUUGU	9051	ACAAGUAU CUGAUGAG	GCCGUUAGGC	CGAA	ACCCUGAA	27427
8461	2569	AGGGUAAU A CUUGUACC	9052	GGUACAA G CUGAUGAG	GCCGUUAGGC	CGAA	AUUACCCU	27428
8464	2566	GUAAUACU U GUACCGGU	9053	ACCGGUAC CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUAC	27429
8467	2563	AUACUUGU A CCGGUCCA	9054	UGGACCGG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGUAU	27430
8473	2557	GUACCGGU C CAUCCAAG	9055	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCGGUAC	27431
8477	2553	CGGUCCAU C CAAGCCUC	9056	GAGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGACCG	27432
8485	2545	CCAAGCCU C CACAUCAU	9057	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUUGG	27433
8491	2539	CUCCACAU C AUUGUGUA	9058	UACACAAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAG	27434
8494	2536	CACAUCAU U GUGUAUGA	9059	UCAUACAC CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGUG	27435
8499	2531	CAUUGUGU A UGAACACU	9060	AGUGUUC A CUGAUGAG	GCCGUUAGGC	CGAA	ACACAAUG	27436
8508	2522	UGAACACU C CACUCCA	9061	UGGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUUC A	27437
8513	2517	ACUCCACU U CCACAUCU	9062	AGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGAGU	27438
8514	2516	CUCCACU C CACAUCUC	9063	GAGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGGAG	27439
8520	2510	UUCACAU C UCAGCUCU	9064	AGAGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAA	27440
8522	2508	CCACAUCU C AGCUCUUG	9065	CAAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGUG	27441
8527	2503	UCUCAGCU C UUGCCGGC	9066	GCCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGAGA	27442
8529	2501	UCAGCUCU U GCCGGCUG	9067	CAGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUGA	27443
8542	2488	GCUGAUGU C UAUGGCAC	9068	GUGCAUA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCAGC	27444
8544	2486	UGAUGUCU A UGGCACAC	9069	GUGUGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGACAUCA	27445
8560	2470	CCCAGUGU C AGCGUGCA	9070	UGCACGCU CUGAUGAG	GCCGUUAGGC	CGAA	ACACUGGG	27446
8572	2458	GUGCAGCU U CACGGAGA	9071	UCUCCGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGCAC	27447
8573	2457	UGCACGUU C ACGGAGAG	9072	CUCUCCGU CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGCA	27448
8595	2435	GCAGAAU C CUCCAACU	9073	AGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCUGC	27449
8598	2432	GAACUCU C CAACUGCG	9074	CGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUUC	27450
8622	2408	UGAGAGCU A UGGACCUA	9075	UAGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCUCA	27451
8630	2400	AUGGACCU A UCACGAGC	9076	GCUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCCAU	27452
8632	2398	GGACCUAU C ACGAGCAU	9077	AUGCUCGU CUGAUGAG	GCCGUUAGGC	CGAA	AUAGGUCC	27453
8641	2389	ACGAGCAU U GAUGCCCA	9078	UGGGCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AUGCUCGU	27454
8651	2379	AUGCCCAU C CACAACAG	9079	CUGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AACGGCAU	27455
8676	2354	CCAGCAAU C CUUGCGUU	9080	AACGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGCUGG	27456
8679	2351	GCAAUCCU U GCGUUAUC	9081	GAUAACGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUGC	27457
8684	2346	CCUUGCGU U AUCCAGGA	9082	UCCUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACGCAAGG	27458
8685	2345	CUUGCGUU A UCCAGGAC	9083	GUCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AACGCAAG	27459
8687	2343	UGCGUUAU C CAGGACAU	9084	AUGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA	AUAACGCA	27460
8700	2330	ACAUGCCU C CGAACAGU	9085	ACUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCAUGU	27461
8721	2309	GGAUUGCU C CUCCGAAC	9086	GUUCGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUC	27462
8724	2306	AUGCUCCU C CGAACACU	9087	AGUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGCAU	27463
8733	2297	CGAACACU U GAUGGACA	9088	UGUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUUCG	27464
8746	2284	GACAGCCU U CCCAACUG	9089	CAGUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUGUC	27465
8747	2283	ACAGCCUU C CCAACUGA	9090	UCAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCUGU	27466
8769	2261	ACACCCCU C CAACUGAU	9091	AUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGGUGU	27467
8778	2252	CAACUGAU C CAAAGUCC	9092	GGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGUUG	27468
8785	2245	UCCAAAGU C CCAAGCUG	9093	CAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGGUA	27469
8797	2233	AGCUGUGU C UCCUAGAG	9094	CUCUAGGA CUGAUGAG	GCCGUUAGGC	CGAA	ACACAGCU	27470
8799	2231	CUGUGUCU C CUAGAGCG	9095	CGCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAG	27471
8802	2228	UGUCUCCU A GAGCGGCU	9096	AGCCGCUC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGACA	27472
8811	2219	GAGCGGCU A GUCUCUGC	9097	GCAGAGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCGCUC	27473
8814	2216	CGGCUAGU C UCUGCGCU	9098	AGCGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACUAGCCG	27474
8816	2214	GCUAGUCU C UGCGUCC	9099	GGAGCGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGACUAGC	27475
8823	2207	UCUGCGCU C CUUUGAGG	9100	CTUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCAGA	27476
8826	2204	GCGUCCU U UGAGGGUG	9101	CACCCUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGCGC	27477
8827	2203	CGCUCUUC U GAGGGUGG	9102	CCACCCUC CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGCG	27478
8837	2193	AGGGUGGU U GUAAAGGC	9103	GCCUUUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCACCCU	27479

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8840	2190	GUGGUUGU A AAGGCUU	9104	AAAGCCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAC	27480
8847	2183	UAAAGGCU U UGCCAAUG	9105	CAUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUUA	27481
8848	2182	AAAGGCUU U GCCAAUGC	9106	GCAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUUU	27482
8861	2169	AUGCUGCU U CCAGACUU	9107	AAGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAU	27483
8862	2168	UGCUGCUU C CAGACUUG	9108	CAAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCA	27484
8869	2161	UCCAGACU U GUGCCAAU	9109	AUUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUGGA	27485
8884	2146	AUGGUGAU U GAUCUGUU	9110	AACAGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACCAU	27486
8888	2142	UGAUGAU C UGUUGUUC	9111	GAACAACA CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUCA	27487
8892	2138	UGAUCUGU U GUUCUCCU	9112	AGGAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	27488
8895	2135	UCUGUUGU U CUCCUCUG	9113	CAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGA	27489
8896	2134	CUGUUGUU C UCCUCUGC	9114	GCAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AACACACAG	27490
8898	2132	GUUGUUCU C CUCUGCCC	9115	GGGCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAAAC	27491
8901	2129	GUUCUCCU C UGCCCACC	9116	GGUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAC	27492
8913	2117	CCACCACU A UGUUAGAG	9117	CUCAUACA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUGG	27493
8917	2113	CACUAUGU A UGAGUCUC	9118	GAGACUCA CUGAUGAG	GCCGUUAGGC	CGAA ACUAUGUG	27494
8923	2107	GUUAGAGU C UCCAAAGG	9119	CCUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUAC	27495
8925	2105	AUGAGUCU C CAAAGGGU	9120	ACCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAU	27496
8937	2093	AGGGUGGU U CCAAUUCA	9121	UGAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCCU	27497
8938	2092	GGGUGGUU C CAAUUCAA	9122	UUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACCACCC	27498
8943	2087	GUUCCA AU U CAAUCAGG	9123	CCUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGAAC	27499
8944	2086	UUCCA AU C AAUCAGGA	9124	UCCUGAUU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAA	27500
8948	2082	AAUUCAAU C AGGACCUU	9125	AAGGUCCU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAAU	27501
8956	2074	CAGGACCU U AGCGUUGG	9126	CCAACGCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUG	27502
8957	2073	AGGACCUU A GCGUUGGC	9127	GCCAACGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCCU	27503
8962	2068	CUUGAGCU U GGCCGUGG	9128	CCACGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCUAAG	27504
8989	2041	AAAAGGGU U GACAGUGA	9129	UCACUGUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUUU	27505
9003	2027	UGACCA AU C UGCCACU	9130	AGUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUCA	27506
9017	2013	ACUGGCGU U AGGUCGUU	9131	AACGACCU CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAGU	27507
9018	2012	CUGGCGUU A GGUCGUUC	9132	GAACGACC CUGAUGAG	GCCGUUAGGC	CGAA AACGCCAG	27508
9022	2008	CGUUGGU C GUUCAUG	9133	CAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCUAACG	27509
9025	2005	UAGGUCGU U CAAUGAAG	9134	CUUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGACCUA	27510
9026	2004	AGGUCGUU C AAUGAAGC	9135	GCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AACGACCU	27511
9047	1983	GACGAGAU A GGAACUUU	9136	AAAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCGUC	27512
9054	1976	UAGGAACU U UGCAAGGU	9137	ACCUUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCCUA	27513
9055	1975	AGGAACUU U GCAAGGUC	9138	GACCUUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCU	27514
9063	1967	UGCAAGGU C CAUCCGUG	9139	CACGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGCA	27515
9067	1963	AGGUCCAU C CGUGCCAG	9140	CUGGCACG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCU	27516
9079	1951	GCCAGUGU A CUGCAAU	9141	AAUUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCGAGGC	27517
9087	1943	ACUGCAAU U CCAACACC	9142	GGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27518
9088	1942	CUGCAAU C CAACACCA	9143	UGGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27519
9115	1915	ACCUGUGU C UGCGGGAG	9144	CUCCCGCA CUGAUGAG	GCCGUUAGGC	CGAA ACACAGGU	27520
9125	1905	GCGGGAGU C CCAAGAAA	9145	UUUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCGC	27521
9136	1894	AAGAAACU U GAAAGCCU	9146	AGGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGUUUCUU	27522
9145	1885	GAAAGCCU U UGAACAGA	9147	UCUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUUC	27523
9146	1884	AAAGCCUU U GAACAGAC	9148	GUUCGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGCUU	27524
9160	1870	GAGCCCAU A GGUUGUUC	9149	GAACAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGCGGUC	27525
9164	1866	CCAUAGGU U GUUCCCUU	9150	AAGGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUGG	27526
9167	1863	UAGGUUGU U CCCUCAA	9151	UUGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAACCUA	27527
9168	1862	AGGUUGUU C CCUUC AAC	9152	GUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AACAAACCU	27528
9172	1858	UGUCCCCU U CAACUGCA	9153	UGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAACA	27529
9173	1857	GUUCCCCU C AACUGCAA	9154	UUGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAAC	27530
9183	1847	ACUGCAAU U UUCCAUC	9155	GAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27531
9184	1846	CUGCAAU U UUCCAUCU	9156	AGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27532
9185	1845	UGCAAUUU U UCCAUCU	9157	AAGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCA	27533
9186	1844	GCAAUUUU U CCAUCUUC	9158	GAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUGC	27534
9187	1843	CAAUUUUU C CAUCUUA	9159	UGAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUG	27535
9191	1839	UUUCCA AU C UUCACUCU	9160	AGAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAA	27536
9193	1837	UUCCAUCU U CACUCUAC	9161	GUAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAA	27537
9194	1836	UCCAUCUU C ACUCUACA	9162	UGUAGAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	27538
9198	1832	UCUUCACU C UACACUUC	9163	GAAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAGA	27539
9200	1830	UUCACUCU A CACUUCAA	9164	UUGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGAA	27540
9205	1825	UCUACACU U CAAUAGAC	9165	GUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUAGA	27541

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9206	1824	CUACACUU C AAAUGACC	9166	GGUCAUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGUAG	27542
9221	1809	CCCGACGU C AACUUGAC	9167	GUCAAGUU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCGGG	27543
9226	1804	CGUCAACU U GACAGUGU	9168	ACACUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGACG	27544
9235	1795	GACAGUGU U GCUUGAAA	9169	UUUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUGUC	27545
9239	1791	GUGUUGCU U GAAAAUUC	9170	GAAUUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAC	27546
9246	1784	UUGAAAAU U CCACAGGA	9171	UCCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCAA	27547
9247	1783	UGAAAAUU C CACAGGAA	9172	UUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUCA	27548
9261	1769	GAAUGGCU C CAGCCAAA	9173	UUUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUUC	27549
9273	1757	CCAAAGCU U GAUGCAGA	9174	UCUGCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUGG	27550
9285	1745	GCAGAGCU C CCUCUUGU	9175	ACAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	27551
9289	1741	AGCUCUCCU C UUGUGAGC	9176	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGCU	27552
9291	1739	CUCCUCU U GUGAGCCC	9177	GGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGAG	27553
9306	1724	CCAAAGCU A UCACAGAC	9178	GUCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUGG	27554
9308	1722	AAUGCUAU C ACAGACUG	9179	CAGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGCAUU	27555
9319	1711	AGACUGCU U CGUGGCGU	9180	ACGCCACG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUCU	27556
9320	1710	GACUGCUU C GUGGCGUG	9181	CACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUC	27557
9333	1697	CGUGUGGU U CCUCAAAC	9182	GUUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCACACG	27558
9334	1696	GUGUGGUU C CUCAAACU	9183	AGUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACCACAC	27559
9337	1693	UGGUUCCU C AAACUCCA	9184	UGGAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAACCA	27560
9343	1687	CUCAAACU C CAUUAACG	9185	CGUUA AUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUUGAG	27561
9347	1683	AACUCCAU U AACGUCUC	9186	GAGACGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUU	27562
9348	1682	ACUCCAUU A ACGUCUCU	9187	AGAGACGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAGU	27563
9353	1677	AUUAACGU C UCUCUGUU	9188	AACAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCUAAU	27564
9355	1675	UAACGUCU C UCUGUUC	9189	GGAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACGUUA	27565
9357	1673	ACGUCUCU C UGUUCCUC	9190	GAGGAACA CUGAUGAG	GCCGUUAGGC	CGAA AGAGACGU	27566
9361	1669	CUCUCUGU U CCUCCACA	9191	UGUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGAG	27567
9362	1668	UCUCUGUU C CUCCACAC	9192	GUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACAGAGA	27568
9365	1665	CUGUCCU C CACACAGU	9193	ACUGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACAG	27569
9374	1656	CACACAGU A CUUCCAGC	9194	GCUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUG	27570
9377	1653	ACAGUACU U CCAGCACU	9195	AGUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUACUGU	27571
9378	1652	CAGUACUU C CAGCACUG	9196	CAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUACUG	27572
9389	1641	GCACUGCU C CAAGGGAG	9197	CUCCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGC	27573
9400	1630	AGGGAGGU U GAGGUCCA	9198	UGGACCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCCU	27574
9406	1624	GUUGAGGU C CAUGAAC	9199	GGUUC AUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAAC	27575
9418	1612	GAACCACU C ACGAUGGA	9200	UCCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUUC	27576
9437	1593	AAGAAGCU C UUUGUUC	9201	GGAAACAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCUU	27577
9439	1591	GAACGUCU U UGUUCCAA	9202	UUGAACA CUGAUGAG	GCCGUUAGGC	CGAA AGACGUUC	27578
9440	1590	AACGUCUU U GUUCCAAC	9203	GUUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGACGUU	27579
9443	1587	GUCUUUGU U CCAACAGU	9204	ACUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGAC	27580
9444	1586	UCUUUGUU C CAACAGUC	9205	GACUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGA	27581
9452	1578	CCAACAGU C AUCACGUA	9206	UACGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGG	27582
9455	1575	ACAGUCAU C ACGUAGUA	9207	UACUACGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACUGU	27583
9460	1570	CAUCACGU A GUAUGCAU	9208	AUGCAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAUG	27584
9463	1567	CACGUAGU A UGCAUUGG	9209	CCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUACGUG	27585
9469	1561	GUAUGCAU U GGUGUCAA	9210	UUGACACC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAC	27586
9475	1555	AUUGGUGU C AAUCCUG	9211	CAGGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAU	27587
9479	1551	GUGUCAAU C CCUGACCG	9212	CGGUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGACAC	27588
9492	1538	ACCGUGGU U CACAGUCC	9213	GGACUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGGU	27589
9493	1537	CCGUGGUU C ACAGUCCA	9214	UGGACUGU CUGAUGAG	GCCGUUAGGC	CGAA AACCACGG	27590
9499	1531	UUCACAGU C CACUGUCA	9215	UGACAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGAA	27591
9506	1524	UCCACUGU C ACCUCUCC	9216	GGAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGGA	27592
9511	1519	UGUACCU C UCCAUAUU	9217	AAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGACA	27593
9513	1517	UCACCUCU C CAUAUUCU	9218	AGAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGA	27594
9517	1513	CUCUCCAU A UUCUCCAA	9219	UUGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAG	27595
9519	1511	CUCCAUAU U CUCCAAGC	9220	GCUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGGAG	27596
9520	1510	UCCAUAUU C UCCAAGCU	9221	AGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGGA	27597
9522	1508	CAUAUUCU C CAAGCUUU	9222	AAAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUAUG	27598
9529	1501	UCCAAGCU U UAGUGUGU	9223	ACACACUA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	27599
9530	1500	CCAAGCUU U AGUGUGUA	9224	UACACACU CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGG	27600
9531	1499	CAAGCUUU A GUGUGUAU	9225	AUACACAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUUG	27601
9538	1492	UAGUGUGU A UGAAGGCG	9226	CGCCUUCA CUGAUGAG	GCCGUUAGGC	CGAA ACACACUA	27602
9567	1463	UGCUGAAU C UCCUGGCC	9227	GGCAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGCA	27603

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9569	1461	CUGAAUCU C CCUGCCUG	9228	CAGGCAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCAG	27604
9585	1445	GAGUGGCU C CAACCUGU	9229	ACAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCCACUC	27605
9601	1429	UGUGGAGU A GUUCCGU	9230	ACGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUCCACA	27606
9604	1426	GGAGUAGU U UCCGUGCG	9231	CGCACGGA CUGAUGAG	GCCGUUAGGC	CGAA	ACUACUCC	27607
9605	1425	GAGUAGU U CCGUGCGA	9232	UCGCACGG CUGAUGAG	GCCGUUAGGC	CGAA	AACUACUC	27608
9606	1424	AGUAGUU C CGUGCGAC	9233	GUCGCACG CUGAUGAG	GCCGUUAGGC	CGAA	AAACUACU	27609
9616	1414	GUGCGACU C CACAGUAG	9234	CUACUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUCGCAC	27610
9623	1407	UCCACAGU A GUUGGUCC	9235	GGACCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUGUGGA	27611
9626	1404	ACAGUAGU U GGUCCAUG	9236	CAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA	ACUACUGU	27612
9630	1400	UAGUUGGU C CAUGGACA	9237	UGUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCAACUA	27613
9651	1379	UGGCCACU U CGUACUUG	9238	CAAGUACG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGCCA	27614
9652	1378	GGCCACUU C GUACUUGA	9239	UCAAGUAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGGCC	27615
9655	1375	CACUUCGU A CUUGAUAU	9240	AUAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACGAAGUG	27616
9658	1372	UUCGUACU U GAUAUUCU	9241	AGAAUAUC CUGAUGAG	GCCGUUAGGC	CGAA	AGUACGAA	27617
9662	1368	UACUUGAU A UUCUCUUU	9242	AAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAAGUA	27618
9664	1366	CUUGAUAU U CUCUUUCA	9243	UGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUAUCAAG	27619
9665	1365	UUGAUAUU C UCUUUCAA	9244	UUGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUAUCA	27620
9667	1363	GAUAUUCU C UUUCAAGA	9245	UCUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAUAUC	27621
9669	1361	UAUUCUCU U UCAAGAUG	9246	CAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAAUA	27622
9670	1360	AUUCUCUU U CAAGAUGG	9247	CCAUCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGAAU	27623
9671	1359	UUCUCUUU C AAGAUGGU	9248	ACCAUCUU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGAA	27624
9680	1350	AAGAUGGU U CUUCCUUA	9249	AUAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACCAUCUU	27625
9681	1349	AGAUGGUU C UUCCUUAU	9250	AAUAGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AACCAUCU	27626
9683	1347	AUGGUUCU U CCUAUUGC	9251	GCAAUAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAACCAU	27627
9684	1346	UGGUUCUU C CUAUUGCC	9252	GGCAAUAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAACCA	27628
9687	1343	UUCUCCU A UUGCCUUG	9253	CAAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAGAA	27629
9689	1341	CUUCCUUA U GCCUUGGU	9254	ACCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUAGGAAG	27630
9694	1336	UAUUGCCU U GGUAGAGC	9255	GCUCUACC CUGAUGAG	GCCGUUAGGC	CGAA	AGGCAUA	27631
9698	1332	GCCUUGGU A GAGCAGGC	9256	GCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGGC	27632
9711	1319	AGCAAAU U UGCGCAU	9257	AUGCGCA CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGCCU	27633
9712	1318	GGCAAAU U GGCGAUG	9258	CAUGCGCC CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGCC	27634
9724	1306	GCAUGUGU C AAUGCUUC	9259	GAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA	ACACAUGC	27635
9731	1299	UCAAUGCU U CCUUGGCC	9260	GGCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUGA	27636
9732	1298	CAAUGCUU C CUUGCCA	9261	UGGCAAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAUUG	27637
9735	1295	UGCUCU C UGCCAAAU	9262	AUUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAGCA	27638
9736	1294	GCUUCCU U GCCAAUA	9263	UAUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAAGC	27639
9744	1286	UGCCAAU A AUCCGCAG	9264	CUGCGGAU CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGGCA	27640
9747	1283	CAAAUAU C CGCAGCCG	9265	CGGCGCG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUUG	27641
9757	1273	GCAGCCGU U GCCCAGC	9266	GCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA	ACGGCUGC	27642
9772	1258	GCCCCUGU C CACCACUC	9267	GAGUGGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGGGC	27643
9780	1250	CCACCACU C CUUGUCUG	9268	CAGACAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGUGG	27644
9783	1247	CCACUCCU U GUCUGCAC	9269	GUGCAGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUGG	27645
9786	1244	CUCCUUGU C UGCACACA	9270	UGUGUGCA CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGGAG	27646
9805	1225	AGCUGGGU C AGCACGUU	9271	AACGUGCU CUGAUGAG	GCCGUUAGGC	CGAA	ACCCAGCU	27647
9813	1217	CAGCAGU U UGUCAUUG	9272	CAAUGACA CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGCUG	27648
9814	1216	AGCACGUU U GUCAUUGU	9273	ACAAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	AACGUGCU	27649
9817	1213	ACGUUUGU C AUUGUGAG	9274	CUCACAAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAAACGU	27650
9820	1210	UUUGUCAU U GUGAGCUU	9275	AAGCUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AUGACAAA	27651
9828	1202	UGUGAGCU U CUCCCAUG	9276	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCACA	27652
9829	1201	GUGAGCUU C UCCCAUGG	9277	CCAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUCAC	27653
9831	1199	GAGCUUCU C CCAUGGUC	9278	GACCAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGCUC	27654
9839	1191	CCCAUGGU C GGGCACGC	9279	GCGUGCCC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAUGGG	27655
9852	1178	ACGCAGCU U UGGUGGAG	9280	CUCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGCGU	27656
9853	1177	CGCAGCUU U GGUGGAGA	9281	UCUCCACC CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGCG	27657
9865	1165	GGAGAGAU C GCUGACGG	9282	CCGUCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCUCUCC	27658
9875	1155	CUGACGGU A GCCAAUA	9283	UAUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	ACCGUCAG	27659
9883	1147	AGCCAAU A GCAUAAC	9284	GUUAUUGC CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGGCU	27660
9889	1141	AUAGCAAU A ACUGCGGA	9285	UCCGCAGU CUGAUGAG	GCCGUUAGGC	CGAA	AUUGCUAU	27661
9901	1129	GCGGACCU C UGCCAGGU	9286	ACCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCCGC	27662
9910	1120	UGCCAGGU U GACCGCCU	9287	AGGCGGUC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGGCA	27663
9919	1111	GACCGCCU C CAUAUCA	9288	UGAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGUC	27664
9923	1107	GCCUCCAU A UUCAUCAU	9289	AUGAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAGGC	27665

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9925	1105	CUCCAUAU U CAUCAUCU	9290	AGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGAG	27666
9926	1104	UCCAUAUU C AUCAUCUU	9291	AAGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGGA	27667
9929	1101	AUAUUAU C AUCUUCAC	9292	GUGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUAU	27668
9932	1098	UUCAUCAU C UUCACAUC	9293	GAUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAA	27669
9934	1096	CAUCAUCU U CACAUCGA	9294	UCGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGAUG	27670
9935	1095	AUCAUCUU C ACAUCGAU	9295	AUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGAU	27671
9940	1090	CUUCACAU C GAUGGUAG	9296	CUACCAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAAG	27672
9947	1083	UCGAUGGU A GGUUGUC	9297	GACAAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCGA	27673
9952	1078	GGUAGGCU U GUCCUUG	9298	CUAAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUACC	27674
9955	1075	AGGCUUGU C CUUAGACA	9299	UGUCUAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGCCU	27675
9958	1072	CUUGUCCU U AGACAUGA	9300	UCAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGACAAG	27676
9959	1071	UUGUCCUU A GACAUGAU	9301	AUCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGACAA	27677
9968	1062	GACAUGAU A GUCACGCA	9302	UGCGUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGUC	27678
9971	1059	AUGAUAU C ACGCAGCU	9303	AGCUGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAU	27679
9982	1048	GCAGCUGU C GCCUUCGA	9304	UCGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGC	27680
9987	1043	UGUCGCCU U CGAGAACC	9305	GGUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGACA	27681
9988	1042	GUCGCCUU C GAGAACCA	9306	UGGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGAC	27682
10000	1030	AACCAAU C CACCAUG	9307	CAUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGUU	27683
10010	1020	ACCAUGU U GCUCAGA	9308	UCUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGGU	27684
10014	1016	AUGUUGCU C CAGACACU	9309	AGUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAU	27685
10023	1007	CAGACACU C CUCCAAG	9310	CUUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCUG	27686
10026	1004	ACACUCCU U CCAAGAAG	9311	CUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	27687
10027	1003	CACUCCU C CAAGAAGU	9312	ACUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	27688
10036	994	CAAGAAGU C UCUGUUGC	9313	GCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCUUG	27689
10038	992	AGAAGUCU C UGUUGCUC	9314	GAGCAACA CUGAUGAG	GCCGUUAGGC	CGAA AGACUUCU	27690
10042	988	GUCUCUGU U GCUCAUUC	9315	GAAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGAC	27691
10046	984	CUGUUGCU C AUUCCAAG	9316	CUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAG	27692
10049	981	UUGUCUUAU U CCAAGGCA	9317	UGCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCAA	27693
10050	980	UGCUCUUAU C CAAGGCAG	9318	CUGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGCA	27694
10060	970	AAGGCAGU U GAAGCUGU	9319	ACAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCUU	27695
10069	961	GAAGCUGU A AGCUGGGG	9320	CCCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUUC	27696
10092	938	AAAGCAAU A GCACGACA	9321	UGUCGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGC UU	27697
10110	920	ACACAACU C UCUGCAUG	9322	CAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGU	27698
10112	918	ACAACUCU C UGCAUGGU	9323	ACCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUGU	27699
10123	907	CAUGGUGU U GCUCCAA	9324	UUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUG	27700
10127	903	GUGUUGCU C CCAAGCAU	9325	AUGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAC	27701
10136	894	CCAAGCAU C CAACCAAU	9326	AUUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGG	27702
10165	865	CAGGGCAU A UCCAGGUU	9327	ACCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUG	27703
10167	863	GGGCAUUA C CAGGUUUC	9328	GAACCCUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCC	27704
10174	856	UCCAGGGU U CCUCAAGA	9329	UCUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGA	27705
10175	855	CCAGGGUU C CUCAAGAU	9330	AUCUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACCCUGG	27706
10178	852	GGGUUCCU C AAGAUGCA	9331	UGGAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAACCC	27707
10184	846	CUCAAGAU C CAUGAUUC	9332	GAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGAG	27708
10191	839	UCCAUGAU U CUGUUUUU	9333	AAAAACAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGGA	27709
10192	838	CCAUGAUU C UGUUUUUA	9334	UAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGG	27710
10196	834	GAUUCUGU U UUAACCAA	9335	UUGGUAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAUC	27711
10197	833	AUUCUGUU U UUAACCAA	9336	UUUGGUAA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAU	27712
10198	832	UUCUGUUU U UACCAAAU	9337	AUUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGAA	27713
10199	831	UCUGUUUU U ACCAAUA	9338	UAUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGA	27714
10200	830	CUGUUUUU A CCAAUAC	9339	GUAUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACAG	27715
10207	823	UACCAAAU A CCUUGUGG	9340	CCACAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGUA	27716
10211	819	AAAUACCU U GUGGCCUU	9341	AAGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUUU	27717
10219	811	UGUGGCCU U GGUGCUGU	9342	ACAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGGCCACA	27718
10228	802	GGUGCUGU C CAUCCAAG	9343	CUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCACC	27719
10232	798	CUGUCCAU C CAAGCCCC	9344	GGGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACAG	27720
10243	787	AGCCCCCU U CUUGUUCG	9345	CGAACAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGCU	27721
10244	786	GCCCCCUU C UUGUUCGC	9346	GCGAACAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGGC	27722
10246	784	CCCCUUCU U GUUCGCUA	9347	UAGCGAAC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGGG	27723
10249	781	CUUCUUGU U CGCUAGAG	9348	CUCUAGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGAAG	27724
10250	780	UUCUUGUU C GCUAGAGU	9349	ACUCUAGC CUGAUGAG	GCCGUUAGGC	CGAA AACAAGAA	27725
10254	776	UGUUCGCU A GAGUGCUU	9350	AAGCACUC CUGAUGAG	GCCGUUAGGC	CGAA AGCGAACA	27726
10262	768	AGAGUGCU U UCUCGGUG	9351	CACGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCACUCU	27727

Table VIII

10263	767	GAGUGCUU U CUCCGUGU	9352	ACACGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCACUC	27728
10264	766	AGUGCUUU C UCCGUGUG	9353	CACACGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCATU	27729
10266	764	UGCUIUUCU C CGUGUGUC	9354	GACACACG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGCA	27730
10274	756	CCGUGUGU C UGCACUGU	9355	ACAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACACACGG	27731
10283	747	UGCACUGU C AGUGACCU	9356	AGGUCACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGCA	27732
10292	738	AGUGACCU C CGACUGCG	9357	CGCAGUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCACU	27733
10302	728	GACUGCGU C UUGAGUGG	9358	CCACUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCAGUC	27734
10304	726	UGGCGUCU U GAGUGGCG	9359	CGCCACUC CUGAUGAG	GCCGUUAGGC	CGAA AGACGCAG	27735
10316	714	UGGCGUGU C UUGGUGCA	9360	UGCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCA	27736
10318	712	GCGUGUCU U GGUGCAUC	9361	GAUGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGACACGC	27737
10326	704	UGGUGCAU C UUCAUAC	9362	GUAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCACCA	27738
10328	702	GUGCAUCU U CCAUACCU	9363	AGGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCAC	27739
10329	701	UGCAUCUU C CAUACCU	9364	CAGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGCA	27740
10333	697	UCUUCUUA A CCUGACGU	9365	ACGUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	27741
10342	688	CCUGACGU A GACUGCUC	9366	CAGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAGG	27742
10354	676	UGCUGACU U UGUGCACC	9367	GGUGCACA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGCA	27743
10355	675	GCUGACUU U GUGCACCA	9368	UGGUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGC	27744
10369	661	CCAACAGU C GAUGUCUU	9369	AAGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGG	27745
10375	655	GUCGAUGU C UUCUGGAU	9370	AUCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGAC	27746
10377	653	CGAUGUCU U CUGGAUCA	9371	UGAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCG	27747
10378	652	GAUGUCUU C UGGAUCAU	9372	AUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUC	27748
10384	646	UUCUGGAU C AUUACCA	9373	CUGGUAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGAA	27749
10387	643	UGGAUCAU U ACCAGCCG	9374	CGGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCCA	27750
10388	642	GGAUCAUU A CCAGCCGA	9375	UGGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAUCC	27751
10410	620	CUGGGCAU U CAUAAGUG	9376	CACUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAG	27752
10411	619	UGGGCAUU C AUAAGUGA	9377	UCACUUAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCA	27753
10414	616	GCAUUCAU A AGUGAUAG	9378	CUAUCACU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUGC	27754
10421	609	UAGUGAU A GUAUCAUC	9379	GAUGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUA	27755
10424	606	GUGAUAGU A UCAUCGCA	9380	UGCAGUA CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAC	27756
10426	604	GAUAGUUA C AUCGCACA	9381	UGUGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AUACUAUC	27757
10429	601	AGUAUCAU C GCACAUGU	9382	ACAUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUCU	27758
10438	592	GCACAUGU A UCCACAUC	9383	AUGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUGC	27759
10440	590	ACAUGUUA C CCACAUC	9384	GGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUACAUGU	27760
10447	583	UCCCAUUA C CAUUGCUC	9385	GAGCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGGA	27761
10451	579	ACAUCCAU U GCUCUGAC	9386	GUCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGU	27762
10455	575	CCAUGUCU C UGACAAUG	9387	CAUUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUGG	27763
10467	563	CAAUGCAU A GGUUCUUU	9388	AAAGAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUG	27764
10471	559	GCAUAGGU U CUUCCAG	9389	CUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUGC	27765
10472	558	CAUAGGUU C UUCCAGC	9390	CUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACCUAUG	27766
10474	556	UAGGUUCU U UCCAGCAG	9391	CUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACCUA	27767
10475	555	AGGUUCUU U CCAGCAGC	9392	GCUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACC	27768
10476	554	GGUUCUUU C CAGCAGCU	9393	AGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAACC	27769
10487	543	GCAGCUGU U GGAUUCGU	9394	ACGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGC	27770
10493	537	GUUGGAAU C GUGAUGAC	9395	GUCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAC	27771
10504	526	GAUGACAU C UGUGACGU	9396	ACGUCACA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAUC	27772
10513	517	UGUGACGU C AGUAGCAU	9397	AUGCUACU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCACA	27773
10517	513	ACGUCAGU A GCAUUUAC	9398	GUAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGACGU	27774
10522	508	AGUAGCAU U UACCGUCA	9399	UGACGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUACU	27775
10523	507	GUAGCAUU U ACCGUCAU	9400	AUGACGGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUAC	27776
10524	506	UAGCAUUU A CCGUCAUC	9401	GAUGACGG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGCUA	27777
10529	501	UUUACCGU C AUCAUCAC	9402	GUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAAA	27778
10532	498	ACCGUCAU C AUCACCUU	9403	AAGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGACGGU	27779
10535	495	GUCAUCAU C ACCUCCCC	9404	GGGAAGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAC	27780
10540	490	CAUCACCU U CCCUUGGA	9405	UCCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAUG	27781
10541	489	AUCACCUU C CCUUGGAA	9406	UUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGAU	27782
10545	485	CCUCCCCU U GGAAGUUA	9407	UAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAGG	27783
10552	478	UUGGAAGU U AGAGAGGG	9408	CCCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCAA	27784
10553	477	UGGAAGUU A GAGAGGGU	9409	ACCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCCAA	27785
10562	468	GAGAGGGU A ACUGCUCC	9410	GGAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUCUC	27786
10569	461	UAACUGCU C CUACGCUG	9411	CAGCGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUA	27787
10572	458	CUGCUCCU A CGCUGGCG	9412	CGCCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAG	27788
10583	447	CUGGCGAU C AGGCCAAU	9413	AUUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCAG	27789

Table VIII

10592	438	AGGCCAAU C AUGACUCG	9414	GCAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCCU	27790
10604	426	ACUGCAAU U CCGGUCUU	9415	AAGACCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27791
10605	425	CUGCAAU C CGGUCUUU	9416	AAAGACCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27792
10610	420	AUUCCGGU C UUUCUCC	9417	GGAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAU	27793
10612	418	UCCGGUCU U UCCUCCUC	9418	GAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGACCGGA	27794
10613	417	CCGGUCUU U CCUCCUCU	9419	AGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACCGG	27795
10614	416	CGGUCUUU C CUCCUCUU	9420	AAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGACCG	27796
10617	413	UCUUUCCU C CUCUUUUC	9421	GAAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAAGA	27797
10620	410	UCCUCCU C UUUCUUU	9422	AAAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	27798
10622	408	CCUCCUCU U UUCUUUUG	9423	CAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGG	27799
10623	407	CUCCUCUU U UCUUUUUGU	9424	ACAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27800
10624	406	UCCUCUUU U CUUUUGUU	9425	AACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGGA	27801
10625	405	CCUCUUUU C UUUGUUU	9426	AAACAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	27802
10627	403	UCUUUUUU U UUGUUUUG	9427	CAAAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAGA	27803
10628	402	CUUUUCUU U UGUUUUGA	9428	UCAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAG	27804
10629	401	UUUUUUUU U GUUUUGAG	9429	CUCAAAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAA	27805
10632	398	UCUUUUUGU U UUGAGCUC	9430	GAGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGA	27806
10633	397	CUUUUGUU U UGAGCUCC	9431	GGAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACAAAAG	27807
10634	396	UUUUGUUU U GAGCUCCG	9432	CGGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAACAAAA	27808
10640	390	UUUGAGCU C CGCGAUU	9433	AAUCGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCAA	27809
10648	382	CCGCCGAU U GAUAGCAC	9434	GUGCUAUC CUGAUGAG	GCCGUUAGGC	CGAA AUCGGCGG	27810
10652	378	CGAUUGAU A GCACUGGU	9435	ACCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUCG	27811
10661	369	GCACUGGU C AAGGUCCC	9436	GGGACCUU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUGC	27812
10667	363	GUCAAGGU C CCUAGUUC	9437	GAACUAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGAC	27813
10671	359	AGGUCCCU A GUUCCUUC	9438	GAAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCU	27814
10674	356	UCCCUAGU U CCUUCUUA	9439	UAAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUAGGGA	27815
10675	355	CCCUAGUU C CUUCUUA	9440	UUAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUAGGG	27816
10678	352	UAGUCCU U CUUAAAAC	9441	GUUUUAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACUA	27817
10679	351	AGUUCUU C UUAAAACU	9442	AGUUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAACU	27818
10681	349	UUCCUUCU U AAAACUCA	9443	UGAGUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGAA	27819
10682	348	UCCUUCUU A AAACUCAG	9444	CUGAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGGA	27820
10688	342	UUAAAACU C AGAAGGUG	9445	CACCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUUA	27821
10698	332	GAAGGUGU U UCAUCGCU	9446	AGCGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACACCUUC	27822
10699	331	AAGGUGUU U CAUCGUG	9447	CAGCGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACACCUU	27823
10700	330	AGGUGUUU C AUCGUGU	9448	ACAGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	27824
10703	327	UGUUUCAU C GCUGUUUG	9449	CAAACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGAAACA	27825
10709	321	AUCGUGU U UGUUUUGU	9450	AACAAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGAU	27826
10710	320	UCGUGUU U GUUUUGUUC	9451	GAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCGA	27827
10713	317	CUGUUUGU U UGUUCACA	9452	UGUGAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAACACAG	27828
10714	316	UGUUUGUU U GUUCACAC	9453	GUGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	27829
10717	313	UUGUUUGU U CACACCUC	9454	GAGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAACACA	27830
10718	312	UGUUUGUU C ACACCUCU	9455	AGAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	27831
10725	305	UCACACCU C UCCAUCGA	9456	UCGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUGA	27832
10727	303	ACACCUCU C CAUCGAUC	9457	GAUCGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGU	27833
10731	299	CUCUCCAU C GAUCCAGC	9458	GCUGGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAG	27834
10735	295	CCAUCGAU C CAGCACUG	9459	CAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGAUGG	27835
10746	284	GCACUGCU C GGGUCGGA	9460	UCCGACCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGC	27836
10751	279	GCUCGGGU C GGAGCAAU	9461	AUUGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCCGAGC	27837
10760	270	GGAGCAAU U GCUGUGAA	9462	UUCACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUCU	27838
10800	230	ACACAAAU C GUAUUGGC	9463	GCCAAUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUGUGU	27839
10803	227	CAAAUCGU A UUGGCCCC	9464	GGGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUUG	27840
10805	225	AAUCGAU U GGCCCUU	9465	AAGGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGAU	27841
10813	217	UGGCCCCU U GCCGUGA	9466	UCGACGGC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGCCA	27842
10819	211	CUUGCCGU C GAUCAGGC	9467	GCCUGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCAAG	27843
10823	207	CCGUCGAU C AGGCUCAA	9468	UUGAGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCGACGG	27844
10829	201	AUCAGGCU C AACAUAGC	9469	GCUAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAU	27845
10835	195	CUCAACAU A GCCUCUU	9470	AAGAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGAG	27846
10841	189	AUAGCCCU C UUCAGUCC	9471	GGACUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUAU	27847
10843	187	AGCCUCU U CAGUCCAA	9472	UUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGCU	27848
10844	186	GCCUCUU C AGUCCAAU	9473	AUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGGC	27849
10848	182	UCUUCAGU C CAUCAAG	9474	CUUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAGA	27850
10853	177	AGUCCAAU C AAGGACAA	9475	UUGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	27851

Table VIII

10874	156	CGGGGCAU U CCGCGUUU	9476	AAACGCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCCG	27852
10875	155	GGGGCAUU C CGCGUUUU	9477	AAAACGCG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCC	27853
10881	149	UCCGCGU U UUAGCAUA	9478	UAUGCUAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCGGAA	27854
10882	148	UCCGCGUU U UAGCAUAU	9479	AUAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA AACGCGGA	27855
10883	147	CCGCGUUU U AGCAUAUU	9480	AAUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAACGCGG	27856
10884	146	CGCGUUUU A GCAUAUUG	9481	CAUAUUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGCG	27857
10889	141	UUUAGCAU A UUGACAGC	9482	GCUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAAA	27858
10891	139	UAGCAUAU U GACAGCCC	9483	GGGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUAUGCUA	27859
10904	126	GCCCGGCU C UUGCCGGG	9484	CCCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGGC	27860
10906	124	CCGGCUCU U GCCGGGCC	9485	GGCCCGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCGG	27861
10917	113	CGGGCCCU C CUGGUUUC	9486	GAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCCG	27862
10923	107	CUCUGGU U UCUAGAC	9487	GUCUAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAG	27863
10924	106	UCCUGGUU U CUUAGACA	9488	UGUCUAAG CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGA	27864
10925	105	CCUGGUUU C UUAGACAU	9489	AUGUCUAA CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	27865
10927	103	UGGUUUUU U AGACAUCG	9490	CGAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACCA	27866
10928	102	GGUUUCUU A GACAUCGA	9491	UCGAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGAAACC	27867
10934	96	UUAGACAU C GAGAUUUU	9492	AAGAUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUAA	27868
10940	90	AUCGAGAU C UUCGUGCU	9493	AGCACGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCGAU	27869
10942	88	CGAGAUUU U CGUGCUAA	9494	UUAGCACG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCUCG	27870
10943	87	GAGAUUUU C GUGCUAAG	9495	CUUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCUC	27871
10949	81	UUCGUGCU A AGAAACAG	9496	CUGUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCACGAA	27872
10960	70	AAACAGCU C GCACUGUG	9497	CACAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGUUU	27873
10970	60	CACUGUGU U AAUUGUUG	9498	CAACAUAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAGUG	27874
10971	59	ACUGUGUU A AUUGUUGU	9499	ACAACAAU CUGAUGAG	GCCGUUAGGC	CGAA AACACAGU	27875
10974	56	GUGUUAUU U GUUGUUAU	9500	UUAACAAC CUGAUGAG	GCCGUUAGGC	CGAA AUUAACAC	27876
10977	53	UUAAUUGU U GUUAAUCC	9501	GAUUAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUAA	27877
10980	50	AUUGUUGU U AAUCCUCA	9502	UGAGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAU	27878
10981	49	UUGUUGUU A AUCCUCAC	9503	GUGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AACAACAA	27879
10984	46	UUGUUAUU C CUCACAAA	9504	UUUGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACAA	27880
10987	43	UUAAUCCU C ACAACAC	9505	GUGUUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUAA	27881
10997	33	CAACACU A CUAAGUUU	9506	AAACUUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUUG	27882
11000	30	ACACUACU A AGUUUGUC	9507	GACAAACU CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGU	27883
11004	26	UACUAAGU U UGUCAGCU	9508	AGCUGACA CUGAUGAG	GCCGUUAGGC	CGAA ACUAGUA	27884
11005	25	ACUAAGUU U GUCAGCUC	9509	GAGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AACUUAGU	27885
11008	22	AAGUUUGU C AGCUCACA	9510	UGUGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAACUUU	27886
11013	17	UGUCAGCU C ACACAGGC	9511	GCCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGACA	27887

Input Sequence = AF196835_rc. Cut

Site = UH/.

Arm Length = 8. Core Sequence = CUGAUGAG X CGAA (X = GCCGUUAGGC or other stem II)

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table IX

Table IX: WNV minus strand Inozyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme				Rz Seq ID
14	11016	CUGUGUUC U CGCACCAC	9512	GUGGUGCG	CUGAUGAG	GCCGUUAGGC	CGAA IAACACAG	27888
18	11012	GUTUCGCG A CCACCAGC	9513	GCUGGUGG	CUGAUGAG	GCCGUUAGGC	CGAA ICGAGAAC	27889
20	11010	UCUCGCAC C ACCAGCCA	9514	UGGUGUGU	CUGAUGAG	GCCGUUAGGC	CGAA IUGCGAGA	27890
21	11009	CUCGCACC A CCAGCCAC	9515	GUGGUGUG	CUGAUGAG	GCCGUUAGGC	CGAA IGUGCGAG	27891
23	11007	CGCACCAC C AGCCACCA	9516	UGGUGGCU	CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCG	27892
24	11006	GCACCACC A GCCACCAU	9517	AUGGUGGC	CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUGC	27893
27	11003	CCACCAGC C ACCAUUGU	9518	ACAAUGGU	CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUGG	27894
28	11002	CACCAGCC A CCAUUGUC	9519	GACAAUGG	CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGUG	27895
30	11000	CCAGCCAC C AUUGUCGG	9520	CCGACAAU	CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGUG	27896
31	10999	CAGCCACC A UUGUCGGC	9521	GCCGACAA	CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUGG	27897
42	10988	GUCGGCGC A CUGUGCCG	9522	CGGCACAG	CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGAC	27898
44	10986	CGGCGCAC U GUGCCGUG	9523	CAGGCAC	CUGAUGAG	GCCGUUAGGC	CGAA IUGCGCGG	27899
49	10981	CACUGUGC C GUGUGGCU	9524	AGCCACAC	CUGAUGAG	GCCGUUAGGC	CGAA ICACAGUG	27900
57	10973	CGUGUGGC U GGUUGUGC	9525	GCACAACC	CUGAUGAG	GCCGUUAGGC	CGAA ICCACACG	27901
66	10964	GGUUGGC A GAGCAGAA	9526	UUCUGCUC	CUGAUGAG	GCCGUUAGGC	CGAA ICACAACC	27902
71	10959	CGCAGAGC A GAAGAUCU	9527	AGACUUC	CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCA	27903
79	10951	AGAAGAUC U CCUAGUCU	9528	AGACTUAG	CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUC	27904
81	10949	AAGAUCUC C UAGUCUAU	9529	AUAGACUA	CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCUU	27905
82	10948	AGAUCUCC U AGUCUAUC	9530	GAUAGACU	CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUCU	27906
87	10943	UCCUAGUC U AUCCAGG	9531	CCUGGGAU	CUGAUGAG	GCCGUUAGGC	CGAA IACUAGGA	27907
91	10939	AGUCUAUC C CAGGUGUC	9532	GACACCUG	CUGAUGAG	GCCGUUAGGC	CGAA IAUAGACU	27908
92	10938	GUCUAUCC C AGGUGUCA	9533	UGACACCU	CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAC	27909
93	10937	UCUAUCCC A GGUGUCAA	9534	UUGACACC	CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAG	27910
100	10930	CAGGUGUC A AUAUGCUG	9535	CAGCAUAU	CUGAUGAG	GCCGUUAGGC	CGAA IACACCUG	27911
107	10923	CAUAUUGC U GUUUUGUU	9536	AACAAAAC	CUGAUGAG	GCCGUUAGGC	CGAA ICAUAUUG	27912
131	10899	UUUGUGGC A CGGGGUCU	9537	AGACCCCG	CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAA	27913
139	10891	ACGGGGUC U CCACUAAC	9538	GUUAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA IACCCCGU	27914
141	10889	GGGUCUC C ACUAACCU	9539	AGGUUAGU	CUGAUGAG	GCCGUUAGGC	CGAA IAGACCCC	27915
142	10888	GGGUCUCC A CUAACCUC	9540	GAGGUUAG	CUGAUGAG	GCCGUUAGGC	CGAA IGAGACCC	27916
144	10886	GUCUCCAC U AACCUUA	9541	UAGAGGUU	CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAC	27917
148	10882	CCACUAAC C UCUAGUCC	9542	GGACUAGA	CUGAUGAG	GCCGUUAGGC	CGAA IUUAGUGG	27918
149	10881	CACUAACC U CUAGUCCU	9543	AGGACUAG	CUGAUGAG	GCCGUUAGGC	CGAA IGUUAUGG	27919
151	10879	CUAACCUC U AGUCCUUC	9544	GAAGGACU	CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUAG	27920
156	10874	CUCUAGUC C UUCUCCUG	9545	CAGGGGAA	CUGAUGAG	GCCGUUAGGC	CGAA IACUAGAG	27921
157	10873	UCUAGUCC U UCCUUGA	9546	UCAGGGGA	CUGAUGAG	GCCGUUAGGC	CGAA IGACUAGA	27922
160	10870	AGUCCUUC C CCUGACCU	9547	AGGUCAGG	CUGAUGAG	GCCGUUAGGC	CGAA IAAGGACU	27923
161	10869	GUCCUUC C CUGACCUA	9548	UAGGUCAG	CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAC	27924
162	10868	UUCUUCUCC C UGACCUAC	9549	UAGGUGCA	CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAG	27925
163	10867	CCUUCUCC U GACCUACA	9550	UGUAGGUC	CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAGG	27926
167	10863	CCCUUGAC C UACAGCUU	9551	AAGCUGUA	CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGGG	27927
168	10862	CCCUAGAC U ACAGCUUC	9552	GAAGCUGU	CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGGG	27928
171	10859	UGACCUAC A GCUUCAGU	9553	ACUGAAGC	CUGAUGAG	GCCGUUAGGC	CGAA IUAGGUCA	27929
174	10856	CCUACAGC U UCAGUCAG	9554	CUGACUGA	CUGAUGAG	GCCGUUAGGC	CGAA ICUGUAGG	27930
177	10853	ACAGCUUC A GUCAGGCU	9555	AGCCTUGC	CUGAUGAG	GCCGUUAGGC	CGAA IAAGCUGU	27931
181	10849	CUUCAGUC A GGCUGGGC	9556	GCCACGCC	CUGAUGAG	GCCGUUAGGC	CGAA IACUGAAG	27932
185	10845	AGUCAGGC U GGGCCGUG	9557	CACGGCCC	CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAGU	27933
190	10840	GGCUGGGC C GUGCACUU	9558	AAGUGCAC	CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGCC	27934
195	10835	GGCCGUGC A CUUUAAAC	9559	GUUUAAAG	CUGAUGAG	GCCGUUAGGC	CGAA ICACGGCC	27935
197	10833	CCGUGCAC U UUAACCG	9560	CGUUUAA	CUGAUGAG	GCCGUUAGGC	CGAA IUGCACGG	27936
204	10826	CUUUAAAC C GCGGGGUC	9561	GACCCCGC	CUGAUGAG	GCCGUUAGGC	CGAA IUUUAAAG	27937
213	10817	GCGGGGUC U CCUCUAAC	9562	GUUAGAGG	CUGAUGAG	GCCGUUAGGC	CGAA IACCCCGC	27938
215	10815	GGGUCUC C UCUAACCU	9563	AGGUUAGA	CUGAUGAG	GCCGUUAGGC	CGAA IAGACCCC	27939
216	10814	GGGUCUCC U CUAACCUC	9564	GAGGUUAG	CUGAUGAG	GCCGUUAGGC	CGAA IGAGACCC	27916
218	10812	GUCUCCUC U AACCUUA	9565	UAGAGGUU	CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAC	27940
222	10808	CCUCUAAC C UCUGUCC	9566	GGACUAGA	CUGAUGAG	GCCGUUAGGC	CGAA IUUAGAGG	27941
223	10807	CUCUAACC U CUAGUCCU	9567	AGGACUAG	CUGAUGAG	GCCGUUAGGC	CGAA IGUAGAGG	27942
225	10805	CUAACCUC U AGUCCUUU	9568	AAAGGACU	CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUAG	27943

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230	10800	CUCUAGUC C UUUCGCCC	9569	GGGCGAAA CUGAUGAG GCCGUUAGGC	CGAA IACUAGAG	27944
231	10799	UCUAGUCC U UUUCGCCC	9570	AGGGCGAA CUGAUGAG GCCGUUAGGC	CGAA IGACUAGA	27945
237	10793	CCUUUCGC C CUGGUUAA	9571	UUUAAACC CUGAUGAG GCCGUUAGGC	CGAA ICGAAAGG	27946
238	10792	CUUUCGCC C UGGUUAAC	9572	GUUAAACC CUGAUGAG GCCGUUAGGC	CGAA IGCAGAAAG	27947
239	10791	UUUCGCCC U GGUUAACA	9573	UGUUAACC CUGAUGAG GCCGUUAGGC	CGAA IGCGGAAA	27948
247	10783	UGGUUAAC A CCAUUAAC	9574	GGUAAUGG CUGAUGAG GCCGUUAGGC	CGAA IUUAACCA	27949
249	10781	GUUAACAC C AUUACCGG	9575	CCGGUAAU CUGAUGAG GCCGUUAGGC	CGAA IUGUUAAC	27950
250	10780	UUAACACC A UUACCGGG	9576	CCCGUAAU CUGAUGAG GCCGUUAGGC	CGAA IGUGUUA	27951
255	10775	ACCAUUAAC C GGGGCUAG	9577	CUAGCCCC CUGAUGAG GCCGUUAGGC	CGAA IUUAUGGU	27952
261	10769	ACCGGGGC U AGGGCCGC	9578	GCGGCCCU CUGAUGAG GCCGUUAGGC	CGAA ICCCGGU	27953
267	10763	GCUAGGGC C GCGUGGGG	9579	CCCCAGC CUGAUGAG GCCGUUAGGC	CGAA ICCCUAGC	27954
287	10743	UGGUUUGC C UUUGUUA	9580	UUUAAACA CUGAUGAG GCCGUUAGGC	CGAA ICAAACCA	27955
288	10742	GGUUUGCC U UUGUUAAC	9581	GUUAAACA CUGAUGAG GCCGUUAGGC	CGAA IGCAAACC	27956
297	10733	UUGUUAAC C CAGUCCUC	9582	GAGGACUG CUGAUGAG GCCGUUAGGC	CGAA IUUAACAA	27957
298	10732	UGUUAACC C AGUCCUCC	9583	GGAGGACU CUGAUGAG GCCGUUAGGC	CGAA IGUUAACA	27958
299	10731	GUUAACCC A GUCCUCCU	9584	AGGAGGAC CUGAUGAG GCCGUUAGGC	CGAA IGGUUAAC	27959
303	10727	ACCCAGUC C UCCUGGGG	9585	CCCCAGGA CUGAUGAG GCCGUUAGGC	CGAA IACUGGGU	27960
457	10573	ACCCAGUC C UCCUGGGG	9585	CCCCAGGA CUGAUGAG GCCGUUAGGC	CGAA IACUGGGU	27960
304	10726	CCCAGUCC U CCUGGGGC	9586	GCCCGAGG CUGAUGAG GCCGUUAGGC	CGAA IGACUGGG	27961
306	10724	CAGUCCUC C UGGGGCAC	9587	GUGCCCCA CUGAUGAG GCCGUUAGGC	CGAA IAGGACUG	27962
307	10723	AGUCCUCC U GGGGCACU	9588	AGUGCCCC CUGAUGAG GCCGUUAGGC	CGAA IGAGGACU	27963
313	10717	CCUGGGGC A CUAUCGCA	9589	UGCAGUAG CUGAUGAG GCCGUUAGGC	CGAA ICCCCAGG	27964
315	10715	UGGGGCAC U AUCGCAGA	9590	UCUGCGAU CUGAUGAG GCCGUUAGGC	CGAA IUGCCCCA	27965
321	10709	ACUAUCGC A GACUGCAC	9591	GUGCAGUC CUGAUGAG GCCGUUAGGC	CGAA ICGAUAGU	27966
325	10705	UCGCAGAC U GCACUCUC	9592	GAGAGUGC CUGAUGAG GCCGUUAGGC	CGAA IUCUGCGA	27967
328	10702	CAGACUGC A CUCUCCGC	9593	GCGGAGAG CUGAUGAG GCCGUUAGGC	CGAA ICAGUCUG	27968
330	10700	GACUGGAC U CUCCGCAG	9594	CUGCGGAG CUGAUGAG GCCGUUAGGC	CGAA IUGCAGUC	27969
332	10698	CUGCACUC U CCGCAGAG	9595	CUCUGCGG CUGAUGAG GCCGUUAGGC	CGAA IAGUGCAG	27970
334	10696	GCACUCUC C GCAGAGUA	9596	UACUCUGC CUGAUGAG GCCGUUAGGC	CGAA IAGAGUGC	27971
337	10693	CUCUCGCG A GAGUAGCA	9597	UGCACUC CUGAUGAG GCCGUUAGGC	CGAA ICGGAGAG	27972
345	10685	AGAGUAGC A CGCCGUAG	9598	CUACGGCG CUGAUGAG GCCGUUAGGC	CGAA ICUACUCU	27973
349	10681	UAGCACGC C GUAGCGUG	9599	CACGCUAC CUGAUGAG GCCGUUAGGC	CGAA ICGUGCUA	27974
361	10669	GCGUGGUC U GACAUUGG	9600	CAAUGUC CUGAUGAG GCCGUUAGGC	CGAA IACCACGC	27975
365	10665	GGUCUGAC A UUGGGCUU	9601	ACAGCCAA CUGAUGAG GCCGUUAGGC	CGAA IUCGAGCC	27976
372	10658	CAUUGGGC U UUGAAGUU	9602	AACUUAAC CUGAUGAG GCCGUUAGGC	CGAA IACCAUUG	27977
383	10647	GAAGUUAAC A ACAUGUGG	9603	CCACAUGU CUGAUGAG GCCGUUAGGC	CGAA IUAACUUC	27978
386	10644	GUUACAAC A UGUGGGGU	9604	ACCCACAA CUGAUGAG GCCGUUAGGC	CGAA IUUGUAAC	27979
396	10634	GUGGGGUC C UCCUCCCG	9605	CGAAGGA CUGAUGAG GCCGUUAGGC	CGAA IACCCAC	27980
397	10633	UGGGGUCC U CCUCCCGA	9606	UCGGAAGG CUGAUGAG GCCGUUAGGC	CGAA IGACCCCA	27981
399	10631	GGGUCCUC C UUCGAGA	9607	UCUCGGAA CUGAUGAG GCCGUUAGGC	CGAA IAGGACCC	27982
400	10630	GGUCUCC U UCCGAGAC	9608	GUCUCGGA CUGAUGAG GCCGUUAGGC	CGAA IAGGAGCC	27983
403	10627	CCUCCUUC C GAGACGGU	9609	ACCGUCUC CUGAUGAG GCCGUUAGGC	CGAA IAAGGAGG	27984
414	10616	GACGGUUC U GAGGGCUU	9610	AAGCCUC CUGAUGAG GCCGUUAGGC	CGAA IAACCCUC	27985
421	10609	CUGAGGGC U UACAUGGA	9611	UCCAUGUA CUGAUGAG GCCGUUAGGC	CGAA ICCUCAG	27986
425	10605	GGGCUUAC A UGGAUCAC	9612	GUGAUCCA CUGAUGAG GCCGUUAGGC	CGAA IUAAGCCC	27987
432	10598	CAUGGAUC A CUUCGCGG	9613	CCGGAAG CUGAUGAG GCCGUUAGGC	CGAA IAUCCAUG	27988
434	10596	UGGAUCAC U UCGCGGCU	9614	AGCCGCGA CUGAUGAG GCCGUUAGGC	CGAA IUGAUCCA	27989
442	10588	UUCGCGGC U UUGUUCAC	9615	GUGAACA CUGAUGAG GCCGUUAGGC	CGAA ICCGCGAA	27990
449	10581	CUUUGUUC A CCCAGUCC	9616	GGACUGGG CUGAUGAG GCCGUUAGGC	CGAA IAACAAG	27991
451	10579	UUGUUCAC C CAGUCCUC	9617	GAGGACUG CUGAUGAG GCCGUUAGGC	CGAA IUGAACAA	27992
452	10578	UGUUCACC C AGUCCUCC	9618	GGAGGACU CUGAUGAG GCCGUUAGGC	CGAA IGUGAACAA	27993
453	10577	GUUCACCC A GUCCUCCU	9619	AGGAGGAC CUGAUGAG GCCGUUAGGC	CGAA IGGUGAAC	27994
458	10572	CCCAGUCC U CCUGGGGU	9620	ACCCAGG CUGAUGAG GCCGUUAGGC	CGAA IGACUGGG	27995
460	10570	CAGUCCUC C UGGGGUUG	9621	CAACCCCA CUGAUGAG GCCGUUAGGC	CGAA IAGGACUG	27996
461	10569	AGUCCUCC U GGGGUUGA	9622	UCAACCCC CUGAUGAG GCCGUUAGGC	CGAA IGAGGACU	27997
475	10555	UGAGUCC A GGCAGCAC	9623	GUGCUGCC CUGAUGAG GCCGUUAGGC	CGAA ICGACUCA	27998
479	10551	UCGAGGC A GCACCGUC	9624	GACGGUCC CUGAUGAG GCCGUUAGGC	CGAA ICCUGCGA	27999
482	10548	CAGGCAGC A CCGUCUAC	9625	GUAGACGG CUGAUGAG GCCGUUAGGC	CGAA ICUGCCUG	28000
484	10546	GGCAGCAC C GUCUACUC	9626	GAGUAGAC CUGAUGAG GCCGUUAGGC	CGAA IUGCUGCC	28001
488	10542	GCACCGUC U ACUCAACU	9627	AGUUGAGU CUGAUGAG GCCGUUAGGC	CGAA IACGGUGC	28002
491	10539	CCGUUAC U CAACUCC	9628	GGAAGUUG CUGAUGAG GCCGUUAGGC	CGAA IUAGACGG	28003

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493	10537	GUCUACUC A ACUUCGG	9629	CCGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUAGAC	28004
496	10534	UACUCAAC U UCCGGUGG	9630	CCACCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGUA	28005
499	10531	UCAACUUC C GGUGCGG	9631	CCGCCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUUGA	28006
512	10518	GCGGAAC U UCCCGGCC	9632	GGCCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCCGC	28007
515	10515	GGAAUUC C CGGCCUGA	9633	UCAGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUUC	28008
516	10514	GAACUUC C GGCCUGAC	9634	GUCAGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUUC	28009
520	10510	UUCCGGC C UGACUUC	9635	GAAAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGGAA	28010
521	10509	UCCCGGC U GACUUCU	9636	AGAAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCGGGA	28011
525	10505	GGCCUGAC U UUCUCCUC	9637	GAGGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGGCC	28012
529	10501	UACUUUC U CCUCAAAA	9638	UUUAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAGUCA	28013
531	10499	ACUUUCUC C UCAAAAUU	9639	AAUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAAGU	28014
532	10498	CUUUCUC U CAAAAUU	9640	AAAUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAAG	28015
534	10496	UUCUCCUC A AAUUUUC	9641	GAAAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGAA	28016
543	10487	AAAUUUUC U UAACUAU	9642	AAUAGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAUU	28017
548	10482	UUCUUAAC U AUUACAC	9643	GUGUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAAGAA	28018
555	10475	CUAUUAC A CUAACACC	9644	GGUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAUAG	28019
557	10473	AUUUACAC U AACACCAC	9645	GUGUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAAU	28020
561	10469	ACACUAC A CCACUAAA	9646	UUUAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAGUGU	28021
563	10467	ACUACAC C ACUAAUA	9647	UAUUUAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAGU	28022
564	10466	CUAACACC A CUAAUAC	9648	GUUUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUAG	28023
566	10464	AACACCAC U AAUACUA	9649	UAGUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUGU	28024
573	10457	CUAAUAC U ACUAUAA	9650	UUUAUAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUAG	28025
576	10454	AAUACUAC U AUAAACU	9651	AGUUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUAU	28026
584	10446	UAUAAAC U ACACUUU	9652	AAAAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUAU	28027
587	10443	AAACUAC A CUUUUAG	9653	CAUAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUUU	28028
589	10441	AACUACAC U UUAUGCA	9654	UGCAUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAGU	28029
597	10433	UUUUAUGC A UACUUAU	9655	UAUAAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUAAA	28030
601	10429	AUGCAUAC U UAUUUGU	9656	ACAAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUGCAU	28031
611	10419	AUAUUGUC U AUUACAA	9657	UUGUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAU	28032
618	10412	CUAUUAC A AUUGAUU	9658	UAUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAUAG	28033
633	10397	UAAUUAUC U ACAGUACU	9659	AGUACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUUA	28034
636	10394	AUAUCUAC A GUACUGUG	9660	CACAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUAU	28035
641	10389	UACAGUAC U GUGUCCUC	9661	GAGGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGUA	28036
647	10383	ACUGUGUC C UCAACCAA	9662	UUGGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGU	28037
648	10382	CUGUGUCC U CAACCAA	9663	UUUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACACAG	28038
650	10380	GUGUCCUC A ACCAAAGU	9664	ACUUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGACAC	28039
653	10377	UCCUCAAC C AAAGUUGU	9665	ACAACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGGA	28040
654	10376	CCUCAACC A AAGUUGUG	9666	CACAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGAGG	28041
665	10365	GUUGUGUC U UCAUAUCU	9667	AGAUUAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACAAC	28042
668	10362	GUGUCUUC A UAUCUCU	9668	AAGAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGACAC	28043
673	10357	UUCAUUC U CUUAGUG	9669	CACUAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGAA	28044
675	10355	CAUAUCUC U UAGUGAA	9670	UUCACUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUAUAG	28045
685	10345	UAGUGAAC U CAUGUAAU	9671	AUUACAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCACUA	28046
687	10343	GUGAACUC A UGUAAUCC	9672	GAUUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUCAC	28047
695	10335	AUGUAAUC C ACAUACUU	9673	AAGUAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUACAU	28048
696	10334	UGUAAUCC A CAUACUUC	9674	GAAGUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUAUA	28049
698	10332	UAUCCAC A UACUUCUC	9675	GAGAAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAUUA	28050
702	10328	CCACUAC U UCUCUUC	9676	AGAUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUGG	28051
705	10325	CAUACUUC U CAUCUCG	9677	CGGAGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUAUG	28052
707	10323	UACUUCUC A UCUCCGAU	9678	AUCGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGUA	28053
710	10320	UUCUCAUC U CCGAUGAU	9679	AUCAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGAGAA	28054
712	10318	CUCAUCUC C GAUGAUG	9680	CAUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUGAG	28055
722	10308	AUGAUGC U CUGACUUG	9681	CAAGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUCAU	28056
724	10306	GAUUGCUC U GACUUGGU	9682	ACCAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAUUC	28057
728	10302	GCUCUGAC U UGGUUGAU	9683	AUCAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGAGC	28058
740	10290	UUGAUGC C ACCUGGAU	9684	AUCCAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUAUAA	28059
741	10289	UGAUGCC A CCUGGAUG	9685	CAUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUAUCA	28060
743	10287	AUAGCCAC C UGGAUGUU	9686	AACAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCUAU	28061
744	10286	UAGCCACC U GGAUGUUU	9687	AAACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGCUA	28062
755	10275	AUGUUUUC U GCCACGU	9688	ACGUGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACAUA	28063
758	10272	UUUUCUC C CACGUGGC	9689	GCCACGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAAAA	28064

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759	10271	UUUCUGCC C ACGUGGCU	9690	AGCCACGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAAA	28065
760	10270	UUCUGCCC A CGUGGCUC	9691	GAGCCACG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGAA	28066
767	10263	CACGUGGC U CGGGCUCU	9692	AGAGCCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCACGUG	28067
773	10257	GCUCGGGC U CUUGUGCC	9693	GGCACAAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCGAGC	28068
775	10255	UCGGGCUC U UGUGCCAA	9694	UUGGCACA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCGA	28069
781	10249	UCTUGUGC C AAUCAGGC	9695	GCCUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICACAAGA	28070
782	10248	CUUGUGCC A AUCAGGCU	9696	AGCCUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCACAAG	28071
786	10244	UGCCAAUC A GGCUGCCA	9697	UGGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCA	28072
790	10240	AAUCAGGC U GCCACACC	9698	GGUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAUU	28073
793	10237	CAGGCUGC C ACACCAGA	9699	UCUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCUG	28074
794	10236	AGGUGGCC A CACCAGAU	9700	AUCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCCU	28075
796	10234	GCUGCCAC A CCAGAUGU	9701	ACAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	28076
798	10232	UGCCACAC C AGAUGUCC	9702	GGACAUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGCA	28077
799	10231	GCCACACC A GAUGUCCU	9703	AGGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGC	28078
806	10224	CAGAUGUC C UCUCGUUU	9704	AAACGAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCUG	28079
807	10223	AGAUGUCC U CUCGUUUU	9705	AAAACGAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAUCU	28080
809	10221	AUGUCCUC U CGUUUUCU	9706	GGAAAACG CUGAUGAG	GCCGUUAGGC	CGAA IAGGACAU	28081
817	10213	UCGUUUUC C UGAAUAUG	9707	CAUAUUC A CUGAUGAG	GCCGUUAGGC	CGAA IAAAACGA	28082
818	10212	CGUUUUCU U GAAUAUGG	9708	CCAUAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAACG	28083
833	10197	GGGACGUC A CUCCAUIU	9709	AAAUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IACGUCCC	28084
835	10195	GACGUCAC U CCAUUUCU	9710	AGAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGACGUC	28085
837	10193	CGUCACUC C AUUUCUCC	9711	GGAGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGACG	28086
838	10192	GUCAUCUC A UUUCUCCA	9712	UGGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAC	28087
843	10187	UCCAUIUC U CCACUGGG	9713	CCCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUGGA	28088
845	10185	CAUUCUC C ACUGGGGU	9714	ACCCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUG	28089
846	10184	AUUUCUCC A CUGGGGUU	9715	AAACCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAAU	28090
848	10182	UUUCCAC U GGGGUUUU	9716	AAAACCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGAA	28091
860	10170	GUUUGUC U UCCAUCCA	9717	UGGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAC	28092
863	10167	UUGUCUUC C AUCCAUC	9718	GAAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAA	28093
864	10166	UGUCUUC A UCCAUCA	9719	UGAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACA	28094
867	10163	CUUCAUC C AUUCAUC	9720	GAAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGAG	28095
868	10162	UUCCAUC A UUCAUCU	9721	AGAAUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAA	28096
872	10158	AUCCAUC A UUCUCCUC	9722	GAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGAU	28097
876	10154	AUCAUUC U CCUCUUC	9723	GAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAAU	28098
878	10152	UCAUUC C UCUAUCCA	9724	UGGAUAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUAUA	28099
879	10151	CAUUCUC U CUUAUCAA	9725	UUGGAUAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUG	28100
881	10149	UUCUCCUC U AUCCAAC	9726	GUUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAA	28101
885	10145	CCUCUUC C AAACACGG	9727	CCGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGG	28102
886	10144	CUCUUC A AACACGGU	9728	ACCGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAG	28103
890	10140	AUCCAAC A CGGUUCCA	9729	UGGAACCG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGAU	28104
897	10133	CACGGUUC C AGACCUCC	9730	GGAGGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAACGUG	28105
898	10132	ACGUUUC A GACCUCCA	9731	UGGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACCGU	28106
902	10128	UUCAGAC C UCCAACAU	9732	AUGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGAA	28107
903	10127	UCCAGACC U CCAACAU	9733	CAUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGGA	28108
905	10125	CAGACCUC C AACAUUC	9734	GACAUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCUG	28109
906	10124	AGACCUCC A ACAUGUC	9735	GGACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGGUCU	28110
909	10121	CCUCCAAC A UGUCCUCU	9736	AGAGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGG	28111
914	10116	ACAUGUC C UCUGUUGU	9737	ACAACAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUGUU	28112
915	10115	ACAUGUCC U CUGUUGUC	9738	GACAACAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAUUU	28113
917	10113	AUGUCCUC U GUUGUCAU	9739	AUGACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGACAU	28114
924	10106	CUGUUGUC A UCCACUCU	9740	AGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IACAACAG	28115
927	10103	UUGUCAUC C ACUCUCCU	9741	AGGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGACAA	28116
928	10102	UGUCAUC A CUCUCCUC	9742	GAGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGACA	28117
930	10100	UCAUCCAC U CUCCUCCU	9743	AGGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGA	28118
932	10098	AUCCACUC U CCUCUCCU	9744	GCAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAU	28119
934	10096	CCACUCUC C UCCUGCAU	9745	AUGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGG	28120
935	10095	CACUCUC C CCUGCAUG	9746	CADGCAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGU	28121
937	10093	CUCUCCUC C UGCAUGGA	9747	UCCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAG	28122
938	10092	UCUCCUC C UGCAUGGAU	9748	AUCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAG	28123
941	10089	CCUCCUC C UGGAUGGA	9749	UCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGG	28124
951	10079	GGAUGGAC C ACGUGGUU	9750	AACCACGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCU	28125

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952	10078	GAUGGACC A CGUGGUUC	9751	GAACCACG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUC	28126
961	10069	CGUGGUUC U UCCGGUAG	9752	CUACCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACCACG	28127
964	10066	GGUUCUUC C GGUAGGGA	9753	UCCCUACC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACC	28128
974	10056	GUAGGGAC C CAUUCAC	9754	GUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUCCCUAC	28129
975	10055	UAGGGACC C AAUUCACA	9755	UGUGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCCUA	28130
976	10054	AGGGACCC A AUUCACAG	9756	CUGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCCCU	28131
981	10049	CCCAUUC A CAGGACA	9757	UGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGGG	28132
983	10047	CAAUUCAC A GGGACAGC	9758	GCUGUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUUG	28133
989	10041	ACAGGGAC A GCGGAGCA	9759	UGCUCGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUGU	28134
997	10033	AGCGGAGC A AAUGGCGU	9760	ACGCGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCCGCU	28135
1010	10020	GCGUUGGC C AUGAGCCG	9761	CGGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAACGC	28136
1011	10019	CGUUGGCC A UGAGCCGC	9762	GCGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAACG	28137
1017	10013	CCAUGAGC C GCAGGUCU	9763	AGACCUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUGG	28138
1020	10010	UGAGCCGC A GGUCUCUU	9764	AAGAGACC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCUCA	28139
1025	10005	CGCAGGUC U CUUCUGUG	9765	CACAGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGCG	28140
1027	10003	CAGGUCUC U UCUGUGGA	9766	UCCACAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACCUG	28141
1030	10000	GUCUCUUC U GUGGAAGU	9767	ACUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGAC	28142
1041	9989	GGAGUAC A GAAGCAGC	9768	GCUGCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IUACUUC	28143
1047	9983	ACAGAAGC A GCCACAUC	9769	GAUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUCUGU	28144
1050	9980	GAAGCAGC C ACAUCUGG	9770	CCAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUUC	28145
1051	9979	AAGCAGCC A CAUCUGGG	9771	CCCAGAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUU	28146
1053	9977	GCAGCCAC A UCUGGGCA	9772	UGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUGC	28147
1056	9974	GCCACAUC U GGGCAUAA	9773	UUAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGC	28148
1061	9969	AUCUGGGC A UAAGACUU	9774	AAGUCUUA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGAU	28149
1068	9962	CAUAAGAC U UAGCCAGA	9775	UCUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUAUG	28150
1073	9957	GACUAGC C AGACAAGC	9776	GCUGUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUAUC	28151
1074	9956	ACUUAAGC A GACAAGCA	9777	UGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUAAGU	28152
1078	9952	AGCCAGAC A AGCAGUGU	9778	ACACUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGGCU	28153
1082	9948	AGACAAGC A GUGUCGCG	9779	CGCGACAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGUCU	28154
1098	9932	GGACGUUC C AUCCGGCC	9780	GGCCGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUCC	28155
1099	9931	GACGUUCC A UCCGGCCC	9781	GGGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAACGUC	28156
1102	9928	GUUCCAUC C GGCCCCUG	9782	CAGGGGCG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAAC	28157
1106	9924	CAUCCGGC C CCUGGAGA	9783	UCUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGAUG	28158
1107	9923	AUCCGGCC C CUGGAGAU	9784	AUCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGGAU	28159
1108	9922	UCCGGCCC C UGGAGAU	9785	UAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGGA	28160
1109	9921	CCGGCCCC U GGAGAU	9786	AUAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCCGG	28161
1124	9906	AUGCGAGC U CUGCCUAC	9787	GUAGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCGCAU	28162
1126	9904	GCGAGCUC U GCCUACCA	9788	UGGUAGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUCGC	28163
1129	9901	AGCUCUGC C UACCAAU	9789	AAUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGCU	28164
1130	9900	GCUCUGCC U ACCAAUUC	9790	GAAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGAGC	28165
1133	9897	CUGCCUAC C AAUUCAU	9791	GAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IUAGGCAG	28166
1134	9896	UGCCUACC A AUUCAUCC	9792	GGAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUAGGCA	28167
1139	9891	ACCAAUUC A UCCUGUCC	9793	GGACAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGGU	28168
1142	9888	AAUUCAU C UGUCCUCG	9794	CGAGGACA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAAU	28169
1143	9887	AUUCAUCC U GUCCUCGG	9795	CCGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGAAU	28170
1147	9883	AUCCUGUC C UCGGCAUG	9796	CAUGCCGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAGGAU	28171
1148	9882	UCCUGUCC U CGGCAUGG	9797	CCAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA	IGACAGGA	28172
1153	9877	UCCUCGGC A UGGAACCA	9798	UGGUUCCA CUGAUGAG	GCCGUUAGGC	CGAA	ICCGAGGA	28173
1160	9870	CAUGGAAC C ACCAGUGU	9799	ACACUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUG	28174
1161	9869	AUGGAACC A CCAGUGU	9800	AACACTUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUC	28175
1163	9867	GGAACCAC C AGUGUUCU	9801	AGAACACU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUUCC	28176
1164	9866	GAACCACC A GUGUUCUU	9802	AAGAACAC CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGUUC	28177
1171	9859	CAGUGUUC U UCCAUCUU	9803	AAGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACACUG	28178
1174	9856	UGUUCUUC C AUUCUUA	9804	UGAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACA	28179
1175	9855	GUUCUUC C UCUUUAU	9805	AUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAAC	28180
1178	9852	CUUCCAUC U UUCAUGAU	9806	AUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAAG	28181
1182	9848	CAUCUUC A UGAUCAU	9807	AUUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAUG	28182
1188	9842	UCAUGAUC A AUUCAGUG	9808	CACUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUGA	28183
1193	9837	AUCAAUUC A GUGAAUG	9809	CAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGAU	28184
1210	9820	GUUGAGC A AAUUGGAA	9810	UCCAUAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAAAC	28185
1220	9810	AAUGGAAC C UGUGCCA	9811	UGGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUCU	28186

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1221	9809	AUGGAACC U GCUGCCAA	9812	UUGGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUCCAUA	28187
1224	9806	GAACCGUC U GCCAAUCA	9813	UGAUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGGUUC	28188
1227	9803	CCUGCUGC C AAUCAUAC	9814	GUAUGADU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGCAGG	28189
1228	9802	CUGCUGCC A AUCAUACC	9815	GGUAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAGCAG	28190
1232	9798	UGCCAAUC A UACCAUCC	9816	GGAUGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUGGCA	28191
1236	9794	AAUCAUAC C AUCCAGUU	9817	AACUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUGAUU	28192
1237	9793	AUCAUACC A UCCAGUUG	9818	CAACUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUAUGAU	28193
1240	9790	AUACCAUC C AGUUGACG	9819	CGUCAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGUUAU	28194
1241	9789	UACCAUCC A GUUGACGG	9820	CCGUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUGGUA	28195
1254	9776	ACGGUUC C ACUCUUGG	9821	CCAAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAACCGU	28196
1255	9775	CGGUUUC C AUCUUGGA	9822	UCCAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAACCG	28197
1257	9773	GUUUCAC U CUUGGAUG	9823	CAUCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAAAC	28198
1259	9771	UUCACUC U UGGAUGUC	9824	GACAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUGGAA	28199
1268	9762	UGGAUGUC U UUGCGAAC	9825	GUUCGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAUCCA	28200
1277	9753	UUGCGAAC C UUUGACAU	9826	AUGUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGCAA	28201
1278	9752	UGCGAAC U UUGACAUA	9827	UAUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUCGCA	28202
1284	9746	CCUUUGAC A UAGCAUUG	9828	CAAUGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCAAGG	28203
1289	9741	GACAUAGC A UUGAGGAA	9829	UUCUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAUGUC	28204
1313	9717	GAGGUGGC A AAGCGAUC	9830	GAUCGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCACCUC	28205
1325	9705	CGAUCGUC C AGGGGCUU	9831	AAGCCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGAUCG	28206
1326	9704	GAUCGUCC A GGGGCUU	9832	AAAGCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACGAUC	28207
1332	9698	CCAGGGGC U UUACCACA	9833	UGUGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCUGG	28208
1337	9693	GGCUUAC C ACACAGUC	9834	GACUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAAAGCC	28209
1338	9692	GCUUUAC A CACAGUCA	9835	UGACUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUAAAGC	28210
1340	9690	UUUACCAC A CAGUCAUC	9836	GAUGACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGUAAA	28211
1342	9688	UACCACAC A GUCAUCUC	9837	GAGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUGUA	28212
1346	9684	ACACAGUC A UCUCACU	9838	AGUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGUGU	28213
1349	9681	CAGUCAUC U CCACUGAC	9839	GUCAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGACUG	28214
1351	9679	GUCAUCUC C ACUGACAG	9840	CUGUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUGAC	28215
1352	9678	UCAUCUCC A CUGACAGC	9841	GCUGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGAUGA	28216
1354	9676	AUCUCCAC U GACAGCCA	9842	UGGCUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAGAU	28217
1358	9672	CCACUGAC A GCCAUGCG	9843	CGCAUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCAGUGG	28218
1361	9669	UACCAGC C AUGCGGU	9844	AGCCGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGUGAG	28219
1362	9668	UGACAGCC A UGCGGUG	9845	CAGCCGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGUCA	28220
1369	9661	CAUGCGGC U GAGUCUU	9846	AAAGACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCGCAUG	28221
1375	9655	GCUGAGUC U UUCUCCC	9847	GGGAAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUCAGC	28222
1379	9651	AGUCUUUC U UCCCAUU	9848	AAUGGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGACU	28223
1382	9648	CUUUCUUC C CCAUUCUC	9849	GAGAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGAAAG	28224
1383	9647	UUUCUUC C CAUUCUCA	9850	UGAGAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAGAAA	28225
1384	9646	UUCUCCC C AUUCUCAA	9851	UUGAGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAAGAA	28226
1385	9645	UUCUCCCC A UUCUCAA	9852	UUUGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAAGA	28227
1389	9641	CCCCAUUC U CAAACAGC	9853	GCUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUGGGG	28228
1391	9639	CCAUUCUC A AACAGCCA	9854	UGGCUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAUGG	28229
1395	9635	UCUCAAC A GCCAGGUC	9855	GACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUGAGA	28230
1398	9632	CAAACAGC C AGGUCCUG	9856	CAGGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUUUG	28231
1399	9631	AAACAGCC A GGUCUGA	9857	UCAGGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGUUU	28232
1404	9626	GCCAGGUC C UGACUUUG	9858	CAAAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCUGGC	28233
1405	9625	CCAGGUCC U GACUUUGG	9859	CCAAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACCUGG	28234
1409	9621	GUCCUGAC U UUGGGUCC	9860	GGACCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCAGGAC	28235
1417	9613	UUUGGGUC C UUCCCUU	9861	AAGGGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCCAAA	28236
1418	9612	UUGGGUCC U UUCCCUU	9862	AAAGGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACCCAA	28237
1422	9608	GUCCUUUC C CUUUUGUG	9863	CACAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAGGAC	28238
1423	9607	UCCUUUCC C UUUGUGA	9864	UCACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAAGGA	28239
1424	9606	CCUUUCCC U UUUGUGAG	9865	CUCACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAAGG	28240
1437	9593	UGAGUUUC U CCACAUC	9866	UGAUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAACUCA	28241
1439	9591	AGUUUCUC C ACAUCAUC	9867	GAUGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAACU	28242
1440	9590	GUUUCUCC A CAUCAUC	9868	AGAUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAAC	28243
1442	9588	UUCUCCAC A UCAUCUGG	9869	CCAGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAGAA	28244
1445	9585	UCCACAUC A UCUGGGCC	9870	GGCCCAQA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUGGA	28245
1448	9582	ACAUCAGC U GGGCCAAU	9871	AUUGGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAUGU	28246
1453	9577	AUCUGGGC C AAUCACUC	9872	GAGUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCAGAU	28247

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1454	9576	UCUGGGCC A AUCACUCC	9873	GGAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCCGA	28248
1458	9572	GGCCAAUC A CUCCUCC	9874	GGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	28249
1460	9570	CCAAUCAC U CCUCCCC	9875	GGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGG	28250
1462	9568	AAUCACUC C UUCCCUU	9876	AAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAUU	28251
1463	9567	AUCACUCC U UCCCUUC	9877	GAAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAU	28252
1466	9564	ACUCCUUC C CCUCCAU	9878	AUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGU	28253
1467	9563	CUCCUUC C CUCCAUC	9879	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAG	28254
1468	9562	UCCUCCC C UCCAUCA	9880	UGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGA	28255
1469	9561	CCUCCCC U UCCAUCU	9881	AUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAGG	28256
1472	9558	UCCCUUC C AUCAUCU	9882	AGGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGGA	28257
1473	9557	CCCCUUC A UCAUCUC	9883	GAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGGG	28258
1476	9554	CUCCAUC A UCCUACC	9884	GGUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAG	28259
1479	9551	CAUCAUC C UCACCAGC	9885	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAUG	28260
1480	9550	CAUCAUC U CACCAGCU	9886	AGCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAUG	28261
1482	9548	UCAUCUC A CCAGCUGG	9887	CCAGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUGA	28262
1484	9546	AUCCUCAC C AGCUGGAC	9888	GUCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAU	28263
1485	9545	UCCUACC A GCUGGACG	9889	CGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGA	28264
1488	9542	UCACCAG U GGACGGCC	9890	GGCCGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUGA	28265
1496	9534	UGGACGGC C AGGUUGGU	9891	ACCAACCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUCCA	28266
1497	9533	GGACGGCC A GGUUGGUG	9892	CACCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUCC	28267
1529	9501	UAGGUGAC A ACUUGUCC	9893	GGACAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCACCUA	28268
1532	9498	GUGACAAC U UGUCCACU	9894	AGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAC	28269
1537	9493	AACUUGUC C ACUCCCCC	9895	GGGGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IACAAGUU	28270
1538	9492	ACUUGUCC A CUCCCCU	9896	AGGGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGU	28271
1540	9490	UUGUCCAC U CCCCUCU	9897	AGAGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAA	28272
1542	9488	GUCCACUC C CCUCUGA	9898	UCAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAC	28273
1543	9487	UCCACUCC C CCUCUGAU	9899	AUCAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGA	28274
1544	9486	CCACUCCC C UCUGAUC	9900	GAUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUGG	28275
1545	9485	CACUCCCC C UCUGAUCU	9901	AGAUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUG	28276
1546	9484	ACUCCCC U CUGAUCU	9902	AAGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAGU	28277
1548	9482	UCCCCUC U GAUCUCU	9903	AGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGGGGA	28278
1553	9477	CUCUGAUC U UCUCUGGA	9904	UCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAGAG	28279
1556	9474	UGAUCUUC U CUGGAGAU	9905	AUCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUA	28280
1558	9472	AUCUUCUC U GGAGAUAA	9906	UUAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAU	28281
1568	9462	GAGAUAA A UCCAUGAC	9907	GUCAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCUC	28282
1571	9459	AUAACAUC C AUGACGGU	9908	ACCGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUAU	28283
1572	9458	UAACAUC A UGACGGUU	9909	AACCGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUA	28284
1582	9448	GACGGUUC U UCCAUCAG	9910	CUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCGUC	28285
1585	9445	GGUUCUUC C AUCAGCAG	9911	CUCUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACC	28286
1586	9444	GUUCUUC A UCAGCAGC	9912	GCUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAC	28287
1589	9441	CUCCAUC A GCAGCCG	9913	CCGGUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAG	28288
1592	9438	CCAUCAGC A GCCGGGCG	9914	CGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGG	28289
1595	9435	UCAGCAGC C GGGCGCAU	9915	AUGCGCCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGA	28290
1602	9428	CCGGGCGC A UCACUUC	9916	GAAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA ICGCCCGG	28291
1605	9425	GGCGCAUC A CUUCACA	9917	UGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	28292
1607	9423	CGCAUCAC U UUCACAAC	9918	GUUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGCG	28293
1611	9419	UCACUUC A CAACUUG	9919	CAAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUGA	28294
1613	9417	ACUUCAC A ACUUGUG	9920	CACAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGU	28295
1616	9414	UUCACAAC U UUGUGAG	9921	CGUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGAA	28296
1635	9395	AGGUGAGC U CAUUGAUG	9922	CAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCACCU	28297
1637	9393	GUGAGCUC A AUGAUGGC	9923	GCCAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCAC	28298
1646	9384	AUGAUGGC C CUGGCAAG	9924	CUUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCU	28299
1647	9383	UGAUGGCC C UGGCAAGA	9925	UCUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUC	28300
1648	9382	GAUGGCC U GGCAAGAC	9926	GUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCAUC	28301
1652	9378	GCCUGGC A AGACGCCG	9927	CGGCGUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGGG	28302
1659	9371	CAAGACGC C GAUGUUC	9928	GGAACAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUG	28303
1667	9363	CGAUGUUC C CCAUCAAG	9929	UGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IACAUCG	28304
1668	9362	GAUGUUC C CAUCAAGC	9930	GCUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUC	28305
1669	9361	AUGUUC C AUCAAGCA	9931	UGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUC	28306
1670	9360	UGUUC C UCAAGCAG	9932	CUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGGACAUC	28307
1673	9357	UCCCAUC A AGCAGCUC	9933	GAGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGA	28308

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1677	9353	CAUCAAGC A GCUCAAGC	9934	GCUGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUG	28309
1680	9350	CAAGCAGC U CAAGCACC	9935	GGUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUUG	28310
1682	9348	AGCAGCUC A AGCACCUC	9936	AAGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGCU	28311
1686	9344	GCUCAAGC A CCUUAGCU	9937	AGCUAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGC	28312
1688	9342	UCAAGCAC C UUAGCUUC	9938	GAAGCUAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUGA	28313
1689	9341	CAAGCACC U UAGCUUCA	9939	UGAAGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUUG	28314
1694	9336	ACCUUAGC U UCAUUUUC	9940	GAAAUAUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUAAGGU	28315
1697	9333	UUAGCUUC A UUUUCCAA	9941	UUGGAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCUAA	28316
1703	9327	UCAUUUUC C AAGUCAGC	9942	GCUGACUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUGA	28317
1704	9326	CAUUUUCC A AGUCAGCU	9943	AGCUGACU CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAUG	28318
1709	9321	UCCAAGUC A GCUCUCGU	9944	ACGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IACUUGGA	28319
1712	9318	AAGUCAGC U CUCGUGAU	9945	AUCACGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGACUU	28320
1714	9316	GUCAGCUC U CGUGAUGC	9946	GCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGAC	28321
1730	9300	CGGGUGUC C CAGCCAGC	9947	GCUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA IACACCCG	28322
1731	9299	GGGUGUCC C AGCCAGCU	9948	AGCUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IGACACCC	28323
1732	9298	GGUGUCCC A GCCAGCUG	9949	CAGCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGACACC	28324
1735	9295	GUCCAGC C AGCUGUGU	9950	ACACAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGAC	28325
1736	9294	UCCAGGCC A GCUGUGUC	9951	GACACAGC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGGA	28326
1739	9291	CAGCCAGC U GUGUCAUC	9952	GAUGACAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUCG	28327
1745	9285	GCUGUGUC A UCAGCAUA	9953	UAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IACACAGC	28328
1748	9282	GUGUCAUC A GCAUAGAU	9954	AUCUAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAC	28329
1751	9279	UCAUCAGC A UAGAUCUU	9955	AAGAUCUA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGA	28330
1758	9272	CAUAGAUC U UGCCCCCA	9956	UGGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUAUG	28331
1762	9268	GAUCUUGC C CCCAGGCC	9957	GGCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGAUC	28332
1763	9267	AUCUUGCC C CCAGGCCG	9958	CGGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGAU	28333
1764	9266	UCUUGCCC C CAGGCCGG	9959	CCGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAGA	28334
1765	9265	CUUGCCCC C AGGCCGGG	9960	CCCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAG	28335
1766	9264	UUGCCCCC A GGCCGGGU	9961	ACCCGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCCAA	28336
1770	9260	CCCAGGC C GGGUGCCA	9962	UGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGGG	28337
1777	9253	CCGGUGUC C AACUUCAC	9963	GUGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA ICACCCGG	28338
1778	9252	CGGGUGCC A ACUUCACG	9964	CGUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IGCACCCG	28339
1781	9249	GUGCCAAC U UCACGCAG	9965	CUGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCAC	28340
1784	9246	CCAACUUC A CGCAGGAU	9966	AUCCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUGG	28341
1788	9242	CUUCACGC A GGAUGUAA	9967	UUACAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGCAAG	28342
1798	9232	GAUGUAAC C CAGUUUUU	9968	AAAAACUG CUGAUGAG	GCCGUUAGGC	CGAA IUUACAUC	28343
1799	9231	AUGUAACC C AGUUUUUG	9969	CAAAAACU CUGAUGAG	GCCGUUAGGC	CGAA IGUUAACU	28344
1800	9230	UGUAACCC A GUUUUUGG	9970	CCAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUACA	28345
1813	9217	UUGGAGGC C CAAGCCCU	9971	AGGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCAA	28346
1814	9216	UGGAGGCC C AAGCCUC	9972	GAGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCCA	28347
1815	9215	GGAGGCC C AGCCUCG	9973	CGAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCCUCC	28348
1819	9211	GCCCAAGC C CUCGACAC	9974	GUGUCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGGC	28349
1820	9210	CCCAAGCC C UCGACACC	9975	GGUGUCGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGGG	28350
1821	9209	CCAAGCCC U CGACACCU	9976	AGGUGUCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUGG	28351
1826	9204	CCUCGAC A CCUCCUCC	9977	GGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUCGAGGG	28352
1828	9202	CUCGACAC C UCCUCCUG	9978	CAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGAG	28353
1829	9201	UCGACACC U CCUCCUGA	9979	UCAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCGA	28354
1831	9199	GACACCUC C UCCUGAGU	9980	ACUCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGUC	28355
1832	9198	ACACCUC C CCUGAGUU	9981	AACUCAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUGU	28356
1834	9196	ACCUCUCC C UGAGUUCU	9982	AGAACUCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGU	28357
1835	9195	CCUCCUCC U GAGUUCU	9983	AAGAACUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGG	28358
1842	9188	CUGAGUUC U UUCUCCA	9984	UGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAACUCAG	28359
1846	9184	GUUCUUUC U UCCAAGCC	9985	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAC	28360
1849	9181	CUUCUUC C AAGCCAGU	9986	ACUGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAAAG	28361
1850	9180	UUUCUUC C AGCCAGUG	9987	CACUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAA	28362
1854	9176	UUCCAAGC C AGUGGUCU	9988	AGACCACU CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAA	28363
1855	9175	UCCAAGCC A GUGGUCUU	9989	AAGACCAC CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGGA	28364
1862	9168	CAGUGGUC U UCAUUGAG	9990	CUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IACCACUG	28365
1865	9165	UGGUCUUC A UUGAGAAA	9991	UUUCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGACCA	28366
1876	9154	GAGAAAAC C CAGAGCCU	9992	AGGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCUC	28367
1877	9153	AGAAAACC C AGAGCCUC	9993	GAGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUCU	28368
1878	9152	GAAAACCC A GAGCCUCG	9994	CGAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUUC	28369

1883	9147	CCCAGAGC C UCGAACUC	9995	GAGUUCGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGGG	28370
1884	9146	CCAGAGCC U CGAACUCC	9996	GGAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUGG	28371
1890	9140	CCUCGAAC U CCAGAAAG	9997	CUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGG	28372
1892	9138	UCGAACUC C AGAAAGCG	9998	CGCUTUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCGA	28373
1893	9137	CGAACUCC A GAAAGCGA	9999	UCGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUUCG	28374
1904	9126	AAGCGAGC U CCGAGCCA	10000	UGGCUCGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCUU	28375
1906	9124	GCGAGCUC C GAGCCACA	10001	UGUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCGC	28376
1911	9119	CUCCGAGC C ACAUGAAC	10002	GUUCAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGAG	28377
1912	9118	UCCGAGCC A CAUGAACC	10003	GGUUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCGGA	28378
1914	9116	CGAGCCAC A UGAACCAA	10004	UUGGUUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUCG	28379
1920	9110	ACAUGAAC C AAUUGGCU	10005	AGCCAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUTUAUGU	28380
1921	9109	CAUGAACC A AAUGGCUC	10006	GAGCCAUTU CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGAU	28381
1928	9102	CAAAUGGC U CUGCUUCC	10007	GGAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUUG	28382
1930	9100	AAUGGCUC U GCUUCCCU	10008	AGGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAUU	28383
1933	9097	GGCUCUGC U UCCCUUGG	10009	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCC	28384
1936	9094	UCUGCUUC C CUUGGCCU	10010	AGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAACAGA	28385
1937	9093	CUGCUUCC C UUGGCCUU	10011	AAGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAG	28386
1938	9092	UGCUCUCC U UGGCCUUU	10012	AAAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGCA	28387
1943	9087	CCCUUGGC C UUUCCGAA	10013	UUCGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGGG	28388
1944	9086	CCUUGGCC U UUCCGAAC	10014	GUUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAGG	28389
1948	9082	GGCCUUUC C GAACUCUC	10015	GAGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGCC	28390
1953	9077	UUCCGAAC U CUCCGGGU	10016	ACCCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGGAA	28391
1955	9075	CGAACUC U CCGGGUUU	10017	AAACCCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCGG	28392
1957	9073	GAACUCUC C GGGUUUUU	10018	AAAAACCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUC	28393
1968	9062	GUUUUUUC U CUCUCUUU	10019	AAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAAC	28394
1970	9060	UUUUUUC U CUCUUUCC	10020	GGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAAA	28395
1972	9058	UUUCUCUC U CUUUCCCA	10021	UGGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAAA	28396
1974	9056	UCUCUCUC U UUUCCAUC	10022	GAUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGA	28397
1978	9052	UCUCUUUC C CAUCAUGU	10023	ACAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGA	28398
1979	9051	CUCUUUCC C AUCAUGUU	10024	AACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGG	28399
1980	9050	UCUUUCCC A UCAUGUUG	10025	CAACAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAGA	28400
1983	9047	UUCCCAUC A UGUUGUAA	10026	UUACAACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGAA	28401
1996	9034	GUAAAUUC A AGUGUGAC	10027	UGACACAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUUAC	28402
2005	9025	AGUGUGAC A UUUCCCCC	10028	GGGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUACACAU	28403
2009	9021	UGACAUC C CCCCGCAG	10029	CUGCGGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCA	28404
2010	9020	GACAUUC C CCCGAGA	10030	UCUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUC	28405
2011	9019	ACAUUCCC C CCGCAGAU	10031	AUCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUGU	28406
2012	9018	CAUUCCCC C CGCAGAU	10032	CAUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAUG	28407
2013	9017	AUUCCCCC C GCAGAUU	10033	ACAUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGGAAU	28408
2016	9014	CCCCCCGC A GAUGUGCC	10034	GGCACAUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGGGGG	28409
2024	9006	AGAUGUC C UCGCGCUC	10035	GAGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ICACAUU	28410
2025	9005	GAUGUGCC U CGCGUCC	10036	GGAGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGCACAU	28411
2031	8999	CCUCGCGC U CCUCAUCC	10037	GGAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCGAGG	28412
2033	8997	UCGCGCUC C UCAUCCAC	10038	GUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCGA	28413
2034	8996	CGCGCUC U CAUCCACC	10039	GGUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCG	28414
2036	8994	CGCUCUC A UCCACCAU	10040	AUGGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCG	28415
2039	8991	UCCUCAUC C ACCAUCUC	10041	GAGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGGA	28416
2040	8990	CCUCAUC A CCAUCUC	10042	GGAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGG	28417
2042	8988	UCAUCCAC C AUCUCCCA	10043	UGGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUGA	28418
2043	8987	CAUCCACC A UCUCCAA	10044	UUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAUG	28419
2046	8984	CCACCAUC U CCCAAAU	10045	AUUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGG	28420
2048	8982	ACCAUCUC C CAAAUUU	10046	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGU	28421
2049	8981	CCAUCUCC C AAAUUUU	10047	AAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUGG	28422
2050	8980	CAUCUCCC A AAAUUUUG	10048	CAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAU	28423
2063	8967	UUUGGAUC U UCAACUGC	10049	GCAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAA	28424
2066	8964	GAUCUUC A ACUGCUUC	10050	GAAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUCC	28425
2069	8961	UCUUC AAC U GCUUCUCU	10051	AGAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAG	28426
2072	8958	UCAAUCG U UCUUGGC	10052	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGA	28427
2075	8955	ACUGCUUC U CUGGCGCU	10053	AGCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGU	28428
2077	8953	UGCUCUC U GCGCUC	10054	GGAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCA	28429
2083	8947	UCUGGCGC U CCUCCAUC	10055	AAUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCCAGA	28430

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2085	8945	UGGCGCUC C UCCAUGA	10056	UCAADUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCCA	28431
2086	8944	GGCGCUC U CCAUUGAU	10057	AUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCGCC	28432
2088	8942	CGCUCUC C AUUGAUUC	10058	GAUCAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGCG	28433
2089	8941	GCUCUC C UUGAUUCU	10059	AGAAUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAGC	28434
2097	8933	AUUGAUUC U GCUCUUA	10060	UGAAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCAAU	28435
2100	8930	GAUUCUGC U CUUCAAC	10061	GUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAUC	28436
2102	8928	UUCUGCUC U UCAACAUC	10062	AUGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAGAA	28437
2105	8925	UGCUCUUC A AACAUUGC	10063	GCCAUGUU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCA	28438
2109	8921	CUUCAAC A UGGACCC	10064	GGGUGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGAAG	28439
2114	8916	AACAUGGC A CCCAAGC	10065	GCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGU	28440
2116	8914	CAUGGCAC C AAAAGCUG	10066	CAGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCAUG	28441
2117	8913	AUGGCACC C AAAGCUGC	10067	GCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCCAUC	28442
2118	8912	UGGCACCC A AAGCUGCA	10068	UGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGCCA	28443
2123	8907	CCCAAGC U GCAUUGCU	10069	AGCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUGG	28444
2126	8904	AAAGCUGC A UUGCUGU	10070	AACAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUUU	28445
2131	8899	UGCAUUGC U GUUGACCU	10071	AGGUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGCA	28446
2138	8892	CUGUUGAC C UUCUUAU	10072	AUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAACAG	28447
2139	8891	UGUUGACC U UUCUUAUG	10073	CAUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUCAACA	28448
2143	8887	GACCUUUC U UAUGAAU	10074	AAUUCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGUC	28449
2153	8877	AUGAAUUC C UUCUGAGA	10075	UCUCGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUCAU	28450
2154	8876	UGAAUUC U CUCGAGAG	10076	CUCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUA	28451
2156	8874	AAUUCUC U CGAGAGCA	10077	UGCUCUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAAU	28452
2164	8866	UCGAGAGC A CAUUCUGG	10078	CCAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCGA	28453
2166	8864	GAGAGCAC A UUCUGGA	10079	UCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUCUC	28454
2170	8860	GCACAUUC U GGGACGU	10080	AACGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGUGC	28455
2183	8847	CGUUUUC U CUGGCCAA	10081	UUGGCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAACG	28456
2185	8845	UUUUUCUC U GGCCAAA	10082	UUUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAAA	28457
2189	8841	UCUCUGGC C AAAACGC	10083	GCGUUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGAGA	28458
2190	8840	CUCUGGCC A AAAACGCC	10084	GGCGUUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAGAG	28459
2198	8832	AAAACGC C CACAACCA	10085	UGGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGUUUU	28460
2199	8831	AAAACGCC C ACAACCAG	10086	CUGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUUU	28461
2200	8830	AAACGCC A CAACAGU	10087	ACUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGUU	28462
2202	8828	ACGCCAC A ACCAGUUG	10088	CAACUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGCGU	28463
2205	8825	CCACAAC C AGUUGGUG	10089	CACCAACU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGG	28464
2206	8824	CCACAAC A GUUGGUG	10090	CCACAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUG	28465
2217	8813	UGGUGGUC U CAUUGAGC	10091	GCUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA	IACCACCA	28466
2219	8811	GUGGUCUC A UUGAGCAC	10092	GUGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACCAC	28467
2226	8804	CAUUGAGC A CGUACUUC	10093	GAAGUACG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUG	28468
2232	8798	GCACGUAC U UCACUCU	10094	AGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUACGUGC	28469
2235	8795	CGUACUUC A CUCCUUCU	10095	AGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUACG	28470
2237	8793	UACUAC A CCUUCUGG	10096	CCAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGUA	28471
2239	8791	CUUCACUC C UUCUGGCG	10097	CGCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAG	28472
2240	8790	UUCACUCC U UCUGGCG	10098	CCGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGAA	28473
2243	8787	ACUCCUUC U GGCGGUUC	10099	GAACCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGAGU	28474
2252	8778	GGCGGUUC A GGAGCUUU	10100	AAAGCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IAACCGCC	28475
2258	8772	UCAGGAGC U UUCGUGUC	10101	GACACGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCUGA	28476
2267	8763	UUCGUGUC C ACCUUCUC	10102	GAGAAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IACACGAA	28477
2268	8762	UCGUGUCC A CCUUCUCU	10103	AGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGACACGA	28478
2270	8760	GUGUCCAC C UUCUCUUU	10104	AAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACAC	28479
2271	8759	UGUCCACC U UCUCUUUG	10105	CAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGACA	28480
2274	8756	CCACCUUC U CUUGAAC	10106	GUUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGUGG	28481
2276	8754	ACCUUCUC U UUGAACAC	10107	GUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAGGU	28482
2283	8747	CUUUGAAC A CUCGUCG	10108	GCAGCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCAAAG	28483
2285	8745	UUGAACAC U CGCUGCUG	10109	CAGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAA	28484
2289	8741	ACACUCGC U GCUGCCG	10110	CGGGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGUGU	28485
2292	8738	CUCGUCG U GCCGAAG	10111	CUUCGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGAG	28486
2295	8735	CGUGCUGC C CGAAGGA	10112	UCCCUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAGC	28487
2296	8734	CUGCUGCC C GAAGGGAG	10113	CUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCAG	28488
2312	8718	GUAGUGUC A GUCAUGGC	10114	GCCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IACACUAC	28489
2316	8714	UGUCAGUC A UGGCAUG	10115	CAUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGACA	28490
2321	8709	GUCAUGGC C AUGGUGGU	10116	ACCACCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGAC	28491

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2322	8708	UCAUGGCC A UGGUGGUA	10117	UACCACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUGA	28492
2333	8697	GUGGUAAC A UUCGUGAU	10118	AUCACGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUACCAC	28493
2348	8682	AUGGUGUC C CAUGGUUU	10119	AAACCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACCAU	28494
2349	8681	UGGUGUCC C AUGGUUUU	10120	AAAACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACACCA	28495
2350	8680	GGUGUCCC A UGUUUUUG	10121	CAAAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACACC	28496
2367	8663	AGAGGAGC C UGACCACU	10122	AGUGGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCUCU	28497
2368	8662	GAGGAGCC U GACCACUC	10123	GAGUGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUCU	28498
2372	8658	AGCCUGAC C ACUCCAUI	10124	AAUGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGGCU	28499
2373	8657	GCCUGACC A CUCCAUIG	10125	CAUUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAGGC	28500
2375	8655	CUGACCAC U CCAUUGAC	10126	GUGCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUCAG	28501
2377	8653	GACCACUC C AUUGACCA	10127	UGGUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGUC	28502
2378	8652	ACCACUCC A UUGACCAG	10128	CUGGUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUGGU	28503
2384	8646	CAUUGAC C AGCGAACU	10129	AGUUCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAUGG	28504
2385	8645	CAUUGACC A GCGAACUG	10130	CAGUUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCAAUG	28505
2392	8638	CAGCGAAC U GCGGAGC	10131	GCUCCGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCGCUU	28506
2401	8629	GGCGGAGC C UGUGGGCU	10132	AGCCCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCGCC	28507
2402	8628	GCGGAGCC U GUGGGCUU	10133	AAGCCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCGCC	28508
2409	8621	CUGUGGGC U UCACAUCA	10134	UGAUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCACAG	28509
2412	8618	UGGCGUUC A CAUCAUAA	10135	UUAUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCCCA	28510
2414	8616	GGCUUCAC A UCAUAACU	10136	AGUUAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAGCC	28511
2417	8613	UUCACAUC A UAACUGCC	10137	GGCAGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGUGAA	28512
2422	8608	AUCAUAAC U GCCGUGAU	10138	AUCACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUGAU	28513
2425	8605	AUAACUGC C GUGAUAGU	10139	ACUAUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUAU	28514
2436	8594	GAUAGUUC C AGGUUCUA	10140	UAGAACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACUAUC	28515
2437	8593	AUAGUUCC A GGUUCUAU	10141	AUAGAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACUAU	28516
2443	8587	CCAGGUUC U AUAUGGGU	10142	ACCAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCUUG	28517
2457	8573	GGUGGUUC U CAUCGUGG	10143	CCACGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCACC	28518
2459	8571	UGGUUCUC A UCGUGGUG	10144	CACCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAACCA	28519
2469	8561	CGUGGUGC C ACGUCGAA	10145	UUCGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCACG	28520
2470	8560	GUGGUGCC A CGUCGAAC	10146	GUUCGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACCAC	28521
2479	8551	CGUCGAAC U GUACUCAC	10147	GUGAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCGACG	28522
2484	8546	AACUGUAC U CACGCCUG	10148	CAGGCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACAGU	28523
2486	8544	CUGUACUC A CGCUGAG	10149	CUAGGCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACAG	28524
2490	8540	ACUCACGC C UGAGUCGU	10150	ACGACUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUGAGU	28525
2491	8539	CUCACGCC U GAGUCGUU	10151	AACGACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGAG	28526
2501	8529	AGUCGUUC A AUCCUGUU	10152	AACAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGACU	28527
2505	8525	GUUCAUUC C UGUUCUUG	10153	CAAGAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAAC	28528
2506	8524	UUCAAUCC U GUUCUUGA	10154	UCAAGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGAA	28529
2511	8519	UCCUGUUC U UGAUUUUA	10155	UAAAUAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAGGA	28530
2521	8509	GAUUUUAC U GGUGUCUG	10156	CAGACACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAAAUC	28531
2528	8502	GUUGUGUC U GAGUUGAG	10157	CUCAACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACCAG	28532
2538	8492	AGUUGAGC A GGGUUUUU	10158	AAAACCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAACU	28533
2548	8482	GGGUUUUC C CACCGCCC	10159	GGGCGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAACCC	28534
2549	8481	GGUUUUCC C ACCGCCCU	10160	AGGGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAACC	28535
2550	8480	GUUUUCCC A CCGCCUG	10161	CAGGGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAAAC	28536
2552	8478	UUUCCAC C GCCUGGU	10162	ACCAGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAA	28537
2555	8475	CCCACCGC C CUGGUUCC	10163	GGAACCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGG	28538
2556	8474	CCACCGCC C UGGUCCA	10164	UGGAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGG	28539
2557	8473	CACCGCCC U GGUUCCAC	10165	GUGGAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCGUG	28540
2563	8467	CCUGGUUC C ACUCCCA	10166	UGGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCAGG	28541
2564	8466	CUGGUUCC A CUUCCAA	10167	UUGGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACCAG	28542
2566	8464	GGUCCAC U UCCCAAGU	10168	ACUUGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAACC	28543
2569	8461	UCCACUUC C CAAGUUUA	10169	UAACTUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUGGA	28544
2570	8460	CCACUUC C AAGUUUAC	10170	GUAACTU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUGG	28545
2571	8459	CACUUC C AGUUUACA	10171	UGUAACTU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUGG	28546
2579	8451	AAGUUUAC A UCUCUCC	10172	GAGGAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACTU	28547
2582	8448	UUUACAUC U UCCUCGUA	10173	UACGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUAAA	28548
2585	8445	ACAUCUUC C UCGUAUUG	10174	CAAUACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAUGU	28549
2586	8444	CAUCUUC U CGUAUUGG	10175	CCAUAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAUG	28550
2599	8431	UUGGGGUC C CUUCCAGG	10176	CUUGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCCAA	28551
2600	8430	UGGGGUCC C UUCAGGU	10177	ACCUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCCA	28552

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2601	8429	GGGUCCCC U UCCAGGUC	10178	GACCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGACCCC	28553
2604	8426	GUCCCUUC C AGGUCCUU	10179	AAGGACCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAC	28554
2605	8425	UCCCUUCC A GGUCUUU	10180	AAAGGACC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGGA	28555
2610	8420	UCCAGGUC C UUUUUUCC	10181	GGAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IACCUGGA	28556
2611	8419	CCAGGUCC U UUUUUCCA	10182	UGGAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUGG	28557
2618	8412	CUUUUUUC C AUUCUUCC	10183	GGAAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAAG	28558
2619	8411	UUUUUUCC A UUCUUCCU	10184	AGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAAA	28559
2623	8407	UUCCAUUC U UCCUAGGA	10185	UCCUAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGAA	28560
2626	8404	CAUUCUUC C UAGGAGCA	10186	UGCUCCUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUAU	28561
2627	8403	AUUCUUCC U AGGAGCAC	10187	GUGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAU	28562
2634	8396	CUAGGAGC A CCUGGCUG	10188	CACGACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUAG	28563
2636	8394	AGGAGCAC C UGGCUGGU	10189	ACGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCU	28564
2637	8393	GGAGCAC C U GGCUGGUC	10190	GACCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUCC	28565
2641	8389	CACCUGGC U GGUCAUAU	10191	AUAUGACC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGUG	28566
2646	8384	GGCUGGUC A UAUUCACU	10192	AGUGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IACCAGCC	28567
2652	8378	UCAUAUUC A CUGAAUGU	10193	ACAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGA	28568
2654	8376	AUAUUCAC U GAAUGUAC	10194	GUACAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUAU	28569
2663	8367	GAAUGUAC C ACAUUGCC	10195	GGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUACAUAU	28570
2664	8366	AAUGUACC A CAUUGCCU	10196	AGGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUACAUAU	28571
2666	8364	UGUACCAC A UUGCCUGA	10197	UCAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGGUACA	28572
2671	8359	CACAUUGC C UGAAGCUC	10198	GAGCUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGUG	28573
2672	8358	ACAUUGCC U GAAGCUCG	10199	CGAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUGU	28574
2678	8352	CCUGAAGC U CGACUCAC	10200	GUGAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAGG	28575
2683	8347	AGCUCGAC U CACCCAAU	10201	AUUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGAGCU	28576
2685	8345	CUCGACUC A CCCAAUAC	10202	GUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGAG	28577
2687	8343	CGACUCAC C CAUAUACU	10203	AUGUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUCG	28578
2688	8342	GACUCACC C AAUACAUC	10204	GUGUAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGUC	28579
2689	8341	ACUCACCC A AUACAUCU	10205	AGAUGUAU CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAGU	28580
2694	8336	CCCAUAC A UCUCGUGC	10206	GCACGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUAUUGGG	28581
2697	8333	AAUACAUC U CGUGCGUG	10207	CACGCACG CUGAUGAG	GCCGUUAGGC	CGAA IAUGUAUU	28582
2712	8318	UGGAAUUC C GUGAGAGU	10208	ACUCUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCCA	28583
2728	8302	UGGUUUC U GACCAGUC	10209	GACUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAACCCA	28584
2732	8298	UUUCUGAC C AGUCCCCC	10210	GGGGGACU CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAAA	28585
2733	8297	UUCUGACC A GUCCCCC	10211	GGGGGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGAA	28586
2737	8293	GACCAGUC C CCCCCAU	10212	UAUGGGGG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGUC	28587
2738	8292	ACCAGUCC C CCCCCAU	10213	UAUGGGGG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGU	28588
2739	8291	CCAGUCCC C CCCCCAU	10214	GUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGGACUGG	28589
2740	8290	CAGUCCCC C CCAUACC	10215	GGUAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGGGACUG	28590
2741	8289	AGUCCCCC C CCAUACCG	10216	CGUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGGGACU	28591
2742	8288	GUCCCCC C CAUACCGG	10217	CCGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGGGGAC	28592
2743	8287	UCCCCC C AUACCGG	10218	GCCGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IGGGGGAC	28593
2744	8286	CCCCCCC A UACCGCG	10219	CGCGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGGG	28594
2748	8282	CCCCAUAC C GCGUUGG	10220	CCAACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGGG	28595
2760	8270	GUUGGAGC A GCUCCAUC	10221	GAUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAAC	28596
2763	8267	GGAGCAGC U CCAUCUUC	10222	GAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUCC	28597
2765	8265	AGCAGCUC C AUCUUCUC	10223	GAGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCU	28598
2766	8264	GCAGCUC C UCUCUCU	10224	AGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGCUC	28599
2769	8261	GCUCCAUC U UCUCUAUG	10225	CAUAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAGC	28600
2772	8258	CCAUCUUC U CUAUGACU	10226	AGUCAUAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUGG	28601
2774	8256	AUCUUCUC U AUGACUUU	10227	AAAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAU	28602
2780	8250	UCUAUGAC U UUCGGCAU	10228	AUGCCGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUAGA	28603
2787	8243	CUUUCGGC A UGUAGGGG	10229	CCCCUACA CUGAUGAG	GCCGUUAGGC	CGAA ICCGAAAG	28604
2797	8233	GUAGGGGC A GAGCACCU	10230	AGGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUAC	28605
2802	8228	GGCAGAGC A CCUUCACG	10231	CGUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCC	28606
2804	8226	CAGAGCAC C UUCACGCA	10232	UGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCU	28607
2805	8225	AGACCAAC U UCACGCAA	10233	UUGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCU	28608
2808	8222	GAGCCUUC A CGCAAAAU	10234	AUUUUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUGC	28609
2812	8218	CUUCACGC A AAUUCCC	10235	GGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAAG	28610
2819	8211	CAAAAUUC C CUUGGCC	10236	GGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUUG	28611
2820	8210	AAAAUUC C UUGGCCU	10237	AGGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUU	28612
2821	8209	AAAUUCCC U UGGCCUC	10238	GAGGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUUU	28613

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2826	8204	CCCUUGGC C CUCGGUGC	10239	GCACCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGGG	28614
2827	8203	CCUUGGCC C UCGGUGCA	10240	UGCACCGA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAGG	28615
2828	8202	CUUGGCCC U CGGUGCAG	10241	CUGCACCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCCAAG	28616
2835	8195	CUCGGUGC A GCCAGUCC	10242	GGACUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICACCGAG	28617
2838	8192	GGUGCAGC C AGUCCUCA	10243	UGAGGACU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCACC	28618
2839	8191	GUGCAGCC A GUCCUCAA	10244	UUGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCAC	28619
2843	8187	AGCCAGUC C UCAACCAU	10245	AUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGGCU	28620
2844	8186	GCCAGUCC U CAACCAU	10246	AAUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGC	28621
2846	8184	CAGUCCUC A ACCAUUUC	10247	GAAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	28622
2849	8181	UCCUCAAC C AUUUCAAG	10248	CUUGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGGA	28623
2850	8180	CCUCAACC A UUUCAAGG	10249	CCUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGG	28624
2855	8175	ACCAUUUC A AGGACCCG	10250	CGGUUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGU	28625
2861	8169	UCAAGGAC C CGAAUCGU	10251	ACGAUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUGA	28626
2862	8168	CAAGGACC C GAAUCGUC	10252	GACGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUUG	28627
2871	8159	GAAUCGUC C UAUGCUCU	10253	AGAGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IACGAUUC	28628
2872	8158	AAUCGUCC U AUGCUCUU	10254	AAGAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGACGAUU	28629
2877	8153	UCCUAGUC U CUUCAACC	10255	GGUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUAGGA	28630
2879	8151	CUAUGCUC U UCAACCUC	10256	GAGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUAG	28631
2882	8148	UGCUCUUC A ACCUCAGC	10257	GCUGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGACA	28632
2885	8145	UCUUCAAC C UCAGCACU	10258	AGUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGA	28633
2886	8144	CUUCAACC U CAGCACUU	10259	AAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAAG	28634
2888	8142	UCAACCUC A GCACUUGA	10260	UCAAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUGA	28635
2891	8139	ACCUACGC A CUUGACGA	10261	UCGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGGU	28636
2893	8137	CUCAGCAC U UGACGAGG	10262	CCUCGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGAG	28637
2904	8126	ACGAGGAC U CUCCGAUG	10263	CAUCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCGU	28638
2906	8124	GAGGACUC U CCGAUGUC	10264	GACAUCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUUC	28639
2908	8122	GGACUCUC C GAUGUCAC	10265	GUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUCC	28640
2915	8115	CCGAUGUC A CAAAGGAG	10266	CUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA IACAUCGG	28641
2917	8113	GAUGUCAC A AAGGAGGG	10267	CCCUCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUC	28642
2930	8100	AGGUGUC A CAACACUC	10268	GAGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IACACCCU	28643
2932	8098	GGUGUCAC A ACACUCAG	10269	CUGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGACACC	28644
2935	8095	GUCACAAC A CUCAGAAG	10270	CUUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGAC	28645
2937	8093	CACAACAC U CAGAAGGU	10271	ACUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGUG	28646
2939	8091	CAACACUC A GAAGGUCU	10272	AGACCUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUG	28647
2947	8083	AGAAGGUC U GUAGAACA	10273	UGUUCUAC CUGAUGAG	GCCGUUAGGC	CGAA IACCUUCU	28648
2955	8075	UGUAGAAC A CAUCCACU	10274	AGUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUACA	28649
2957	8073	UAGAACAC A UCCACUCC	10275	GGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUCUA	28650
2960	8070	AACACAUC C ACUCCACU	10276	AGUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUGUU	28651
2961	8069	ACACAUC C CUCCACUC	10277	GAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGU	28652
2963	8067	ACAUCCAC U CCACUCUU	10278	AAGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGU	28653
2965	8065	AUCCACUC C ACUCUUCA	10279	UGAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGAU	28654
2966	8064	UCCACUCC A CUCUUCAU	10280	AUGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGA	28655
2968	8062	CACUCCAC U CUUCAUGG	10281	CCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUG	28656
2970	8060	CUCACUC U UCAUGGUG	10282	CACCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAG	28657
2973	8057	CACUCUUC A UGGUGACA	10283	UGUACCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGUG	28658
2981	8049	AUGGUGAC A AUGUCCA	10284	UGGAACAU CUGAUGAG	GCCGUUAGGC	CGAA IUCACCAU	28659
2988	8042	CAAUGUUC C AUCCAUA	10285	UUAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUUG	28660
2989	8041	AAUGUUC C UCCAUAAC	10286	GUUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUU	28661
2992	8038	GUCCAUC C AUAACUUU	10287	AAAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAAC	28662
2993	8037	UCCAUC C UAACUUUG	10288	CAAAGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAA	28663
2998	8032	UCCAUAAC U UUGACUA	10289	UAGUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGA	28664
3003	8027	AACUUUGC A CUAGUUGG	10290	CCAACUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGUU	28665
3005	8025	CUUUGCAC U AGUUGGGG	10291	CCCCAACU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAAAG	28666
3015	8015	GUUGGGGC U CUUCAUGU	10292	ACAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAC	28667
3017	8013	UGGGGCUC U UCAUGUCC	10293	GGACAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCCA	28668
3020	8010	GGUCUUC A UGUCCGGG	10294	CCCGACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCC	28669
3025	8005	UUCAUGUC C GGGACCGC	10295	GCGGUCCC CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAA	28670
3031	7999	UCCGGGAC C GCCCUUUG	10296	CAAAGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCCGGA	28671
3034	7996	GGGACCGC C CUUGUGU	10297	ACACAAAG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCCC	28672
3035	7995	GGACCGCC C UUUGUGUA	10298	UACACAAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUCC	28673
3036	7994	GACCGCCC U UUGUGUAC	10299	GUACACAA CUGAUGAG	GCCGUUAGGC	CGAA IGGCGGUC	28674

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3045	7985	UUGUGUAC C CUCUGACU	10300	AGUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUACACAA	28675
3046	7984	UGUGUACC C UCUGACUU	10301	AAGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUACACA	28676
3047	7983	GUGUACCC U CUGACUUC	10302	GAAGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGUACAC	28677
3049	7981	GUACCCUC U GACUUCUU	10303	AAGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUAC	28678
3053	7977	CCUCUGAC U UCUUGGAC	10304	GUCCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGG	28679
3056	7974	CUGACUUC U UGGACUCU	10305	AGAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCAG	28680
3062	7968	UCUUGGAC U CUUUUUUG	10306	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAGA	28681
3064	7966	UUGGACUC U UUUUUGGG	10307	CCCAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCAA	28682
3077	7953	UGGGUUGC C AUUAAGUA	10308	UACUAUAU CUGAUGAG	GCCGUUAGGC	CGAA ICAACCCA	28683
3078	7952	GGGUUGCC A UUAAGUAA	10309	UUACUAUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAACCC	28684
3088	7942	AUAGUAAC A CCAACCGC	10310	GCGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUAU	28685
3090	7940	AGUAACAC C AACCGCCU	10311	AGGCGGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUACU	28686
3091	7939	GUAACACC A ACCGCCUC	10312	GAGGCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUAC	28687
3094	7936	ACACCAAC C GCCUCUUC	10313	GAAGAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGU	28688
3097	7933	CCAACCGC C UCUUCCAC	10314	GUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUGG	28689
3098	7932	CAACCGCC U CUUCCACA	10315	UGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICGGGUUG	28690
3100	7930	ACCGCCUC U UCCACAUC	10316	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGGU	28691
3103	7927	GCCUCUUC C ACAUCCAA	10317	UUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGGC	28692
3104	7926	CCUCUUC C CAUCCAAG	10318	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGAG	28693
3106	7924	UCUUCAC A UCCAAGGU	10319	ACCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGA	28694
3109	7921	UCCACAUC C AAGGUCAA	10320	UUGACCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGA	28695
3110	7920	CCACAUC A AGGUCAAU	10321	AUUGACCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGG	28696
3116	7914	CCAAGGUC A AUCACUUU	10322	AAAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUUGG	28697
3120	7910	GGUCAUUC A CUUUUCCG	10323	CGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACC	28698
3122	7908	UCAAUAC U UUUCGAC	10324	GUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGA	28699
3127	7903	CACUUUUC C GACCGGUU	10325	AACCGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUG	28700
3131	7899	UUUCGAC C GGUUCGAG	10326	CUCGAACC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAA	28701
3144	7886	CGAGAAAC C UCCGUUCG	10327	CGAACGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUCG	28702
3145	7885	GAGAAACC U CCGUUCGA	10328	UCGAACGG CUGAUGAG	GCCGUUAGGC	CGAA IGUUUCUC	28703
3147	7883	GAAACGUC C GUUCGACC	10329	GGUCGAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUUC	28704
3155	7875	CGUUCGAC C AGCCAUUC	10330	AGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCGAACG	28705
3156	7874	GUUCGACC A GCCAUUC	10331	GAGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCGAAC	28706
3159	7871	CGACCAGC C AUCUCAGU	10332	ACUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUCG	28707
3160	7870	GAGCGCC A UCUCAGUU	10333	AACUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCGGUC	28708
3163	7867	CAGCCAUC U CAGUUUUG	10334	CAAAACUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCUG	28709
3165	7865	GCCAUCUC A GUUUUGCU	10335	AGCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGC	28710
3173	7857	AGUUUUGC U GUGCCCUU	10336	AGGGGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAACU	28711
3178	7852	UGCUGUC C CCUAGAGA	10337	UCUCUAGG CUGAUGAG	GCCGUUAGGC	CGAA ICACAGCA	28712
3179	7851	GCUGUGCC C CUAGAGAC	10338	GUCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA IGCACAGC	28713
3180	7850	CUGUGCCC C UAGAGACU	10339	AGUCUCUA CUGAUGAG	GCCGUUAGGC	CGAA IGGCACAG	28714
3181	7849	UGUGCCCC U AGAGACUG	10340	CAGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCACAC	28715
3188	7842	CUAGAGAC U GGAUGCCC	10341	GGGCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUAG	28716
3195	7835	CUGGAUGC C CUCCAGUG	10342	CACUGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCAG	28717
3196	7834	UGGAUGCC C UCCAGUGA	10343	UCACUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUCCA	28718
3197	7833	GGAUGCCC U CCAGUGAC	10344	GUCACUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUCC	28719
3199	7831	AUGCCUC C AGUGACAU	10345	AUGUCACU CUGAUGAG	GCCGUUAGGC	CGAA IAGGGCAU	28720
3200	7830	UGCCCUCC A GUGACAUU	10346	AAUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IGAGGGCA	28721
3206	7824	CCAGUGAC A UUGCCUUC	10347	GAAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUACUGG	28722
3211	7819	GACAUGGC C UUCUUUCC	10348	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGUC	28723
3212	7818	ACAUGGCC U UCUUUCCU	10349	AGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUGU	28724
3215	7815	UUGCCUUC U UUCUGGC	10350	GCCAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCAA	28725
3219	7811	CUUCUUUC C UGGCGUGU	10351	ACACGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAG	28726
3220	7810	UUCUUUCC U GGCUGUGU	10352	AACACGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAGAA	28727
3233	7797	UGUUUUGC C GCUGAGCG	10353	CGUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAACA	28728
3236	7794	UUUGCCGC U GAGCGAUC	10354	GAUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAAA	28729
3248	7782	CGAUCGAC U UCGAUGAU	10355	AUCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCGAUCG	28730
3260	7770	AUGAUGGC C UCUUUGCG	10356	CGCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAU	28731
3261	7769	UGAUGGCC U CUUUGCGG	10357	CCGCAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUA	28732
3263	7767	AUGGCCUC U UUGCGGUA	10358	UACCGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCAU	28733
3273	7757	UGCGGUAC C UAGUGAAC	10359	GUUCACUA CUGAUGAG	GCCGUUAGGC	CGAA IUACCGCA	28734
3274	7756	GCGGUACC U AGUGAACU	10360	AGUUCACU CUGAUGAG	GCCGUUAGGC	CGAA IGUACCGC	28735

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3282	7748	UAGUGAAC U CUUCUUUU	10361	AAAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCACUA	28736
3284	7746	GUGAACUC U UCUCUUUGU	10362	ACAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCAC	28737
3287	7743	AACUCUUC U UUUGUCAU	10363	AUGACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGUU	28738
3294	7736	CUUUUGUC A UCUGGUUG	10364	CAACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAG	28739
3297	7733	UUGUCAUC U GGUUGAGU	10365	ACUCAACC CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAA	28740
3307	7723	GUUGAGUC U UUCUUUCC	10366	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IACUCAAC	28741
3311	7719	AGUCUUUC U UUCCAAAC	10367	GUUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGACU	28742
3315	7715	UUUCUUUC C AAACCUCU	10368	AGAGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAA	28743
3316	7714	UUCUUUCC A AACCUCUC	10369	GAGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAAAGAA	28744
3320	7710	UUCCAAAC C UCUCCAA	10370	UUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGAA	28745
3321	7709	UCAAAC C UCCCAAG	10371	CUUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGGA	28746
3323	7707	CAAACCUC U CCAAGGU	10372	ACCUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUUG	28747
3325	7705	AACCUCUC C CAAGGUGC	10373	GCACCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGUU	28748
3326	7704	ACCUCUCC C AAGGUGCG	10374	CGCACCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGGU	28749
3327	7703	CCUCUCCC A AGGUGCGU	10375	ACGCACCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGG	28750
3337	7693	GGUGCGUC C UUUUGCCC	10376	GGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IACGCACC	28751
3338	7692	GUGCGUCC U UUUGCCCC	10377	GGGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA IGACGCAC	28752
3344	7686	CUUUUUGC C CCACCUCU	10378	AGAGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAGG	28753
3345	7685	UUUUUGCC C CACCUCUU	10379	AAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGA AAAAG	28754
3346	7684	UUUUGCCC C ACCUCUUU	10380	AAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAAA	28755
3347	7683	UUUGCCCC A CCUCUUUU	10381	AAAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGGCAAA	28756
3349	7681	UGCCCCAC C UCUUUUUA	10382	UAAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGCA	28757
3350	7680	GCCCCACC U CUUUUAG	10383	CUAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGGGC	28758
3352	7678	CCCACCUC U UUUUAGUC	10384	GACUAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGGG	28759
3361	7669	UUUUAGUC C UGGUUUUU	10385	AAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IACUAAAA	28760
3362	7668	UUUAGUCC U GGUUUUUC	10386	GA AAAACC CUGAUGAG	GCCGUUAGGC	CGAA IGACUAAA	28761
3371	7659	GGUUUUUC C AUGUUCUU	10387	AAGAACAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAACC	28762
3372	7658	GUUUUUC A UGUUCUUU	10388	AAAGAACA CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAAC	28763
3378	7652	CCAUGUUC U UUAUGAGU	10389	ACUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA IAACAUGG	28764
3390	7640	UGAGUGUC C AUGUUAUG	10390	CAUAACAU CUGAUGAG	GCCGUUAGGC	CGAA IACACUCA	28765
3391	7639	GAGUGUCC A UGUUAUGG	10391	CCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA IGACACUC	28766
3406	7624	GGAUAGAC A UGACAACC	10392	GGUUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUCC	28767
3411	7619	GACAUGAC A ACCAACC	10393	GGGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUCC	28768
3414	7616	AUGACAAC C AACCCECA	10394	UGGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAU	28769
3415	7615	UGACAACC A ACCCCAC	10395	UGGGGGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUCA	28770
3418	7612	CAACCAAC C CCCACGCA	10396	UGCGUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUUG	28771
3419	7611	AACCAACC C CCACGCAU	10397	AUGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUU	28772
3420	7610	ACCAACCC C CACGCAUG	10398	CAUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGGU	28773
3421	7609	CCAACCCC C ACGCAUGA	10399	UCAUGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGG	28774
3422	7608	CAACCCCC A CGCAUGAU	10400	AUCAUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGU	28775
3426	7604	CCCCACGC A UGAUGUGG	10401	CCACAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGGG	28776
3436	7594	GAUGUGGC A GAGUCCGA	10402	UCGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAUC	28777
3442	7588	GCAGAGUC C GAUGGCAG	10403	CUGCCAUC CUGAUGAG	GCCGUUAGGC	CGAA IACUCUGC	28778
3449	7581	CCGAUGGC A GUUGUUGC	10404	GCAACAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCGG	28779
3462	7568	UUGCGUUC C AAACAGAG	10405	CUCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAACGCAA	28780
3463	7567	UGCGUUC C AACAGAGC	10406	GCUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAAACGA	28781
3467	7563	UUCCAAAC A GAGCUUGC	10407	GCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGAA	28782
3472	7558	AACAGAGC U UGCUCCAU	10408	AUGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGUU	28783
3476	7554	GAGCUUGC U CCAUUCUC	10409	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGCUC	28784
3478	7552	GUUGCUC C AUUCUCCC	10410	GGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAGC	28785
3479	7551	CUUGCUC A UUCUCCCA	10411	UGGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAAG	28786
3483	7547	CUCCAUUC U CCCAAGC	10412	GUUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGAG	28787
3485	7545	CCAUUCUC C CAAAGCGU	10413	ACGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUGG	28788
3486	7544	CAUUCUCC C AAAGCGUC	10414	GACGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUG	28789
3487	7543	AUUCUCCC A AAGCGUCA	10415	UGACGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAU	28790
3495	7535	AAAGCGUC A CCGUGCG	10416	CGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA IACGCUUU	28791
3497	7533	AGCGUCAC C GCUGCGG	10417	CCGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACGCU	28792
3500	7530	GUCACCGC U GCGGCCGU	10418	ACGGCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGAC	28793
3506	7524	GCUGCGGC C GUGAUCAA	10419	UUGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGAC	28794
3513	7517	CCGUGAUC A AAUUCGG	10420	CGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUCACGG	28795
3520	7510	CAAAAUUC C GGCUCUC	10421	GAGAAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUUG	28796

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3524	7506	AUUCCGGC U UCUCGUAC	10422	GUACGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAU	28797
3527	7503	CCGGCUUC U CGUACUGU	10423	ACAGUACG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCCGG	28798
3533	7497	UCUCGUAC U GUCUUCAC	10424	GUGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUACGAGA	28799
3537	7493	GUACUGUC U UCACAGAC	10425	GUCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACAGUAC	28800
3540	7490	CUGUCUUC A CAGACGGG	10426	CCCGUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAG	28801
3542	7488	GUCUUCAC A GACGGGUU	10427	AACCCGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGAC	28802
3552	7478	ACGGGUUC A CUACUACU	10428	AGUAGUAG CUGAUGAG	GCCGUUAGGC	CGAA IAACCCGU	28803
3554	7476	GGGUUCAC U ACUACUGC	10429	GCAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAACCC	28804
3557	7473	UUCACUAC U ACUGCAGC	10430	GCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUAGUGAA	28805
3560	7470	ACUACUAC U GCAGCUAG	10431	CUAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUAGUAGU	28806
3563	7467	ACUACUGC A GCUAGAGA	10432	UCUCUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAGU	28807
3566	7464	ACUGCAGC U AGAGACAC	10433	GUGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAGU	28808
3573	7457	CUAGAGC A CCAAGAUC	10434	GAUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUAG	28809
3575	7455	AGAGACAC C AAGAUCAG	10435	CUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUCU	28810
3576	7454	GAGACACC A AGAUCAGC	10436	GCUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCUC	28811
3582	7448	CCAAGAUC A GCAUGAUC	10437	GAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGG	28812
3585	7445	AGAUCAGC A UGAUCUGU	10438	ACAGAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUCU	28813
3591	7439	GCAUGAUC U GUCCAACU	10439	AGUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUGC	28814
3595	7435	GAUCUGUC C AACUUUCU	10440	AGAAAGUU CUGAUGAG	GCCGUUAGGC	CGAA IACAGAUC	28815
3596	7434	AUCUGUCC A ACUUUCUU	10441	AAGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA IGACAGAU	28816
3599	7431	UGUCCAAC U UUCUUCUG	10442	CAGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGACA	28817
3603	7427	CAACUUUC U UCUGCAUG	10443	CAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUUG	28818
3606	7424	CUUCUUC U GCAUGAUG	10444	CAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAAAG	28819
3609	7421	UCUUCUGC A UGAUGGGU	10445	ACCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAGA	28820
3627	7403	UGGUGCGC U CUAUUCU	10446	AGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICGACCA	28821
3629	7401	GUGCGCUC U AAUUCUGG	10447	CCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCAC	28822
3635	7395	UCUAAUUC U GGGACGUC	10448	GACGUCCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGA	28823
3644	7386	GGGACGUC C GUGGCCAC	10449	UGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IACGUCCC	28824
3650	7380	UCCGUGGC C ACGAUGCC	10450	GGCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCACGGA	28825
3651	7379	CCGUGGCC A CGAUGCCA	10451	UGGCAUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGG	28826
3658	7372	CACGAUGC C AUCCACUA	10452	UAGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUCGUG	28827
3659	7371	ACGAUGCC A UCCACUAC	10453	GUAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUCGU	28828
3662	7368	AUGCCAUC C ACUACAGC	10454	GCUGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCAU	28829
3663	7367	UGCCAUC C CUACAGCG	10455	CGCUGUAG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGCA	28830
3665	7365	CCAUCCAC U ACAGCGUU	10456	AACGCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGG	28831
3668	7362	UCACUAC A GCGUUCUU	10457	AAGAAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUAGUGGA	28832
3675	7355	CAGCGUUC U UCAUGAUU	10458	AAUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAACGUCG	28833
3678	7352	CGUUCUUC A UGAUCCG	10459	CGGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACG	28834
3685	7345	CAUGAUUC C GGCCGUG	10460	CAGCGGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCAUG	28835
3689	7341	AUUCCGGC C GCUGCCG	10461	CGGACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAAU	28836
3692	7338	CCGGCCGC U GUCCGCCG	10462	CGGCGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCCGG	28837
3696	7334	CCGCUGUC C GCCCGUGG	10463	CCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA IACGCGG	28838
3699	7331	CUGUCCGC C GCUGGGU	10464	AGCCGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGACAG	28839
3702	7328	UCCGCCGC U GGGCUGAG	10465	CUCAGCCC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCGGA	28840
3707	7323	CGCUGGGC U GAGCGCAU	10466	AUGCGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACGCG	28841
3714	7316	CUGAGCGC A UUGCCUCA	10467	UGAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGCUCAG	28842
3719	7311	CGCAUUGC C UCAGCUUG	10468	CAAGCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGCG	28843
3720	7310	GCAUUGCC U CAGCUUGC	10469	GCAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUGC	28844
3722	7308	AUUGCCUC A GCUUGCCA	10470	UGGCAAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCAU	28845
3725	7305	GCCUCAGC U UGCCAACC	10471	GGUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGGC	28846
3729	7301	CAGCUUGC C AACCGGA	10472	UCCCGGUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGCUG	28847
3730	7300	AGCUUGCC A ACCGGGA	10473	UUCCGGUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGCU	28848
3733	7297	UUGCCAAC C GGGAACCA	10474	UGGUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCAA	28849
3740	7290	CCGGGAAC C AUGUAGGC	10475	GCCUACAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCGG	28850
3741	7289	CGGGAACC A UGUAGGCA	10476	UGCCUACA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCCG	28851
3749	7281	AUGUAGGC A UAGUGGCA	10477	UGCCACUA CUGAUGAG	GCCGUUAGGC	CGAA ICCUACAU	28852
3757	7273	AUAGUGGC A AAAAGGA	10478	UCCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCACU	28853
3773	7257	AGUGUUGC C GCUGUUAC	10479	GUAACAGU CUGAUGAG	GCCGUUAGGC	CGAA ICACACU	28854
3776	7254	UGUGCCGC U GUUACCGU	10480	ACGGUAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAAC	28855
3782	7248	GCUGUAC C GUAACGGU	10481	ACCGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUAACAGC	28856
3800	7230	AGGGUGAC U UGUCCCCA	10482	UGGGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUCACCU	28857

3805	7225	GACUUGUC C CCAGCAUC	10483	GAUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IACAAGUC	28858
3806	7224	ACUUGUCC C CAGCAUCC	10484	GGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGU	28859
3807	7223	CUUGUCCC C AGCAUCCG	10485	CGGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGACAAG	28860
3808	7222	UUGUCCCC A GCAUCCGG	10486	CCGGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGACAA	28861
3811	7219	UCCCCAGC A UCCGGCUG	10487	CAGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGGA	28862
3814	7216	CCAGCAUC C GGCUGCUA	10488	UAGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUGCUGG	28863
3818	7212	CAUCCGGC U GCUAGCAG	10489	CUGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAUG	28864
3821	7209	CCGGCUGC U AGCAGGAG	10490	CUCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGG	28865
3825	7205	CUGCUGAC A GGAGAGCC	10491	GGCUCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAG	28866
3833	7197	AGGAGAC C GACACUCC	10492	GGAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCCU	28867
3837	7193	GAGCCGAC A CUCAACA	10493	UGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGUC	28868
3839	7191	GCCGACAC U CCAACAUC	10494	GAUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGCGGC	28869
3841	7189	CGACACUC C AACAUCCA	10495	UCGAUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCG	28870
3842	7188	GACACUCC A ACAUCGAC	10496	GUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUC	28871
3845	7185	ACUCCAAC A UCGACGAA	10497	UUCGUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGU	28872
3862	7168	GGGGAAGC C UCGCGCGA	10498	UCGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCCC	28873
3863	7167	GGGAAGCC U CGCGCGAG	10499	CUCGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCCCC	28874
3884	7146	AAUAGUGC A CUUGCCUG	10500	CAGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUU	28875
3886	7144	UAGUGCAC U UGCCUGAA	10501	UUCAGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCACUA	28876
3890	7140	GCACUUGC C UGAACGUU	10502	AACGUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUGC	28877
3891	7139	CACUUGCC U GAACGUUU	10503	AAACGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGUG	28878
3909	7121	UUGAGGUC A AUGAGGUG	10504	CACCUCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	28879
3929	7101	AUGUAAUC U GACGUGAU	10505	AUCACGUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUACAU	28880
3939	7091	ACGUGAUC A AAUGCUUU	10506	AAAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA IAUACCGU	28881
3945	7085	UCAAAUGC U UUAGCAGU	10507	ACUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUUGA	28882
3951	7079	GUUUUAGC A GUGGAGUG	10508	CACUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUAAGC	28883
3965	7065	GUGAGGAC C GCUUGUGU	10509	ACAACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCAC	28884
3968	7062	AGGACCGC U GUUGUCAC	10510	GUGACAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCCU	28885
3975	7055	CUGUUGUC A CAGCGUAC	10511	GUACGCUG CUGAUGAG	GCCGUUAGGC	CGAA IACAACAG	28886
3977	7053	GUUGUCAC A GCGUACAG	10512	CUGUACGC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAAC	28887
3984	7046	CAGCGUAC A GUGACCAG	10513	CUGGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUACGUG	28888
3990	7040	ACAGUGAC C AGGCUGUU	10514	AACAGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	28889
3991	7039	CAGUGACC A GGCUGUUG	10515	CAACAGCC CUGAUGAG	GCCGUUAGGC	CGAA IGCACUG	28890
3995	7035	GACGAGC U GUUGCCGG	10516	CCGGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGUC	28891
4001	7029	GCUGUUGC C GGCCUCAA	10517	UUGAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICAACAGC	28892
4005	7025	UUGCCGGC C UCAAGUCC	10518	GGACUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCAA	28893
4006	7024	UGCCGGCC U CAAGUCCA	10519	UGGACUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCCGCA	28894
4008	7022	CCGGCCUC A AGUCCAAA	10520	UUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCGG	28895
4013	7017	CUCAAGUC C AAAAGAAA	10521	UUUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUGAG	28896
4014	7016	UAAGUCC A AAAGAAAC	10522	GUUUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUUGA	28897
4023	7007	AAAGAAAC U CUCCCAUG	10523	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUU	28898
4025	7005	AGAAACUC U CCAUGCUU	10524	AGCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUAUUU	28899
4027	7003	AAACUCUC C CAUGCUGA	10525	UCAGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUU	28900
4028	7002	AACUCUCC C AUGCUGAA	10526	UUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGUU	28901
4029	7001	ACUCUCCC A UGCUGAAA	10527	UUUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGU	28902
4033	6997	UCCCAUGC U GAAAUUCU	10528	AGAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGGA	28903
4041	6989	UGAAAUUC U CCUUGACC	10529	GGUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUAU	28904
4043	6987	AAAUUCUC C UUGACCUC	10530	GAGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUU	28905
4044	6986	AAUUCUCC U UGACCUCA	10531	UGAGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUUU	28906
4049	6981	UCCUUGAC C UCAAUUCU	10532	AGAAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGGA	28907
4050	6980	CCUUGACC U CAAUUCUU	10533	AAGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAGG	28908
4052	6978	UUGACCUC A AUUCUUUG	10534	CAAAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAA	28909
4057	6973	CUCAAUUC U UUGCCCAA	10535	UUGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAG	28910
4062	6968	UUCUUUGC C CAAACAAA	10536	UUUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGAA	28911
4063	6967	UCUUUGCC C AAACAAAC	10537	GUUUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGA	28912
4064	6966	CUUUGCCC A AACAAACU	10538	AGUUUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAAG	28913
4068	6962	GCCCAAAC A AACUGCUU	10539	AAGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGGC	28914
4072	6958	AAACAAAC U GCUUAUGU	10540	ACAUAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUUU	28915
4075	6955	CAAACUGC U UAUUCAC	10541	GUGACAUU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUUG	28916
4082	6948	CUUAUGUC A CUCUUGGU	10542	ACCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUUAG	28917
4084	6946	UAUGUCAC U CUUGGUCU	10543	AGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUU	28918

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4086	6944	UGUCACUC U UGGUCUUA	10544	UAAGACCA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGACA	28919
4092	6938	UCUUGGUC U UAUCUAGC	10545	GCUAGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGA	28920
4097	6933	GUCUUAUC U AGCCAACC	10546	GGUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAC	28921
4101	6929	UAUCUAGC C AACCCAUC	10547	GAUGGGUU CUGAUGAG	GCCGUUAGGC	CGAA ICUAGAU	28922
4102	6928	AUCUAGCC A ACCCAUCU	10548	AGAUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGAU	28923
4105	6925	UAGCCAAC C CAUCUCGU	10549	ACGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCUA	28924
4106	6924	AGCCAACC C AUCUCGUU	10550	AACGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGCU	28925
4107	6923	GCCAACCC A UCUCGUUG	10551	CAACGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGGC	28926
4110	6920	AACCCAUC U CGUUGGCU	10552	AGCCAACG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGU	28927
4118	6912	UCGUUGGC U GCCACUGC	10553	GCAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCAACGA	28928
4121	6909	UUGGCUGC C ACUGCGCU	10554	AGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAA	28929
4122	6908	UGGUGCC A CUGCGCUC	10555	GAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCCA	28930
4124	6906	GCUGCCAC U GCGCUCAC	10556	GUGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	28931
4129	6901	CACUGCGC U CACAAGGG	10557	CCCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGUG	28932
4131	6899	CUGCGCUC A CAAGGGUC	10558	GACCCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCAG	28933
4133	6897	GCGCUCAC A AGGGUCAU	10559	AUGACCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCGC	28934
4140	6890	CAAGGGUC A UGACACAA	10560	UUGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IACCCUUG	28935
4145	6885	GUAUGAC A CAAUUCAG	10561	CGAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUAGAC	28936
4147	6883	CAUGACAC A AAUCAGGA	10562	UCCUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUG	28937
4152	6878	CACAAUUC A GGAACACG	10563	CGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGUG	28938
4158	6872	UCAGGAAC A CGGCUAGC	10564	GCUAGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGA	28939
4163	6867	AACACGGC U AGCUGGUU	10565	AACCAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGUU	28940
4167	6863	CGGCUAGC U GGUUGUCU	10566	AGACAACC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCCG	28941
4175	6855	UGGUUGUC U GUCUGCGA	10567	UCGCAGAC CUGAUGAG	GCCGUUAGGC	CGAA IACAACCA	28942
4179	6851	UGUCUGUC U GCGAACGU	10568	ACGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACAGACA	28943
4191	6839	AACGUUGC U UCUCUGGC	10569	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAACGUU	28944
4194	6836	GUUGCUUC U CUGGCUCA	10570	UGAGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAAC	28945
4196	6834	UGCUUCUC U GGCUCAGG	10571	CCUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCA	28946
4200	6830	UCUCUGGC U CAGGAUUU	10572	AAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAGAGA	28947
4202	6828	UCUGGCUC A GGAAUUAG	10573	CUAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAGA	28948
4212	6818	GAUUUAGC A CAAUCAUC	10574	GAUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUAAUUC	28949
4214	6816	AUUAGCAC A AUCAUCAA	10575	UUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAAU	28950
4218	6812	GCACAAUC A UCAAGAGA	10576	UCUCUAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGC	28951
4221	6809	CAAUCAUC A AGAGAAGG	10577	CCUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUG	28952
4236	6794	GGGAGAGC A GCAACAUU	10578	AAUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCCC	28953
4239	6791	AGAGCAGC A ACAUCCG	10579	CGGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUCU	28954
4242	6788	GCAGCAAC A UUCGCGCG	10580	CGCCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUGC	28955
4246	6784	CAACAUUC C GGCGAUCU	10581	AGAUCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUUG	28956
4254	6776	CGGCGAUC U UCGUCCU	10582	AGGAACGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCG	28957
4261	6769	CUUCGUUC C UGGAACUU	10583	AAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAACGAAG	28958
4262	6768	UUCGUUC U GGAACUUC	10584	GAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACGAA	28959
4268	6762	CUUGGAC U UCAGCCAU	10585	AUGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGG	28960
4271	6759	GGAACUUC A GCCAUCCA	10586	UGGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUC	28961
4274	6756	ACUUCAGC C AUCCAACA	10587	UGUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAGU	28962
4275	6755	CUUCAGCC A UCCAACAG	10588	CUGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAAG	28963
4278	6752	CAGCAUC C AACAGAAA	10589	UUUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUG	28964
4279	6751	AGCCAUC C ACAGAAA	10590	UUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGCU	28965
4282	6748	CAUCCAAC A GAAAAGG	10591	CCUUUUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUG	28966
4298	6732	GUCGCGAC U CCAAGAC	10592	GUCUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGAC	28967
4300	6730	CGCGACUC C CAAGACAG	10593	CUGUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCG	28968
4301	6729	GCGACUCC C AAGACAGC	10594	GCUGUCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCGC	28969
4302	6728	CGACUCCC A AGACAGCG	10595	CGCUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUCG	28970
4307	6723	CCAAGAC A GCGCUCC	10596	GGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUGGG	28971
4312	6718	GACAGCGC C UCCCAAAC	10597	GUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGCUGUC	28972
4313	6717	ACAGCGCC U CCCAAACC	10598	GGUUGGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCUGU	28973
4315	6715	AGCGCCUC C CAAACCUA	10599	UAGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGCU	28974
4316	6714	CGGCUC C AAACCUAU	10600	UAAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGC	28975
4317	6713	CGCCUCCC A AACCUAUC	10601	GAUAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCG	28976
4321	6709	UCCCAAAC C UAUCUUUC	10602	GAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGGA	28977
4322	6708	CCCAAACC U AUCUUUCC	10603	GGAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGGG	28978
4326	6704	AACCUAUC U UUCAAUUG	10604	CAUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGUU	28979

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4330	6700	UAUCUUUC C AAUGCCCU	10605	AGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAU	28980
4331	6699	AUCUUUCC A AUGCCCU	10606	AAGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAU	28981
4336	6694	UCCAAUGC C CUUCCGCU	10607	AGCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGA	28982
4337	6693	CCAAUGCC C UUCGCGUG	10608	CAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUG	28983
4338	6692	CAAUGCCC U UCCGCGUC	10609	GCAGCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUG	28984
4341	6689	UGCCCUUC C GCUGCAUG	10610	CAUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGCA	28985
4344	6686	CCUCCGCG U GCAUGAGG	10611	CCUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAAGG	28986
4347	6683	UCCGCGUC A UGAGGAGG	10612	CCUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCGGA	28987
4364	6666	AAGAAUAC U CCCAUGGU	10613	ACCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUCU	28988
4366	6664	GAAUACUC C CAUGGUCA	10614	UGACCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUAUUC	28989
4367	6663	AAUACUCC C AUGGUCAU	10615	UGACCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUAUUC	28990
4368	6662	AUAUCUCC C AUGGUCAU	10616	GAUGACCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUAU	28991
4374	6656	CCAUGGUC A UCACACUC	10617	GAGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACCAUGG	28992
4377	6653	UGGUCAUC A CACUCAU	10618	AUUGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGACCA	28993
4379	6651	GUCAUCAC A CUCAUUA	10619	UUAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAC	28994
4381	6649	CAUCACAC U CAUAAGG	10620	CCUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGAUG	28995
4383	6647	UCACACUC A AUAAGGCA	10621	UGCCUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGA	28996
4391	6639	AAUAAGGC A AUAAGGCA	10622	GCCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUAU	28997
4395	6635	AGGCAUUC A AGGCAUUC	10623	AAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCCU	28998
4400	6630	AUCAAGGC A AUUGUCUG	10624	CAGACAAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGAU	28999
4407	6623	CAUUGUC U GAAGAGCA	10625	UGCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IACAAUUG	29000
4415	6615	UGAAGAGC A UCUGGCAG	10626	CUGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUA	29001
4418	6612	AGAGCAUC U GGCAGUUC	10627	GAACUGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUCU	29002
4422	6608	CAUCUGGC A GUUCCUCC	10628	GGAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGAUG	29003
4427	6603	GGCAGUUC C UCCAGGGC	10629	GGCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUGC	29004
4428	6602	GCAGUUC U CCAGGGCC	10630	GGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAACUGC	29005
4430	6600	AGUUCUCC C AGGGCAU	10631	AUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACU	29006
4431	6599	GUUCCUCC A GGGCAU	10632	AAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAAC	29007
4436	6594	UCCAGGGC C AUUCUGUG	10633	CACAGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGA	29008
4437	6593	CCAGGGCC A UUCUGUGA	10634	UCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGG	29009
4441	6589	GGCCAUUC U GUGAGCUC	10635	GAGCUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGCC	29010
4448	6582	CUGUGAGC U CUUCCUCC	10636	GGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCACAG	29011
4450	6580	GUGAGCUC U UCCUCCU	10637	AAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCAC	29012
4453	6577	AGCUUUC C UCCUUCU	10638	AGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCU	29013
4454	6576	GCUCUUC U CCUUCUC	10639	GAGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGC	29014
4456	6574	UCUUCUCC C UUCUCUG	10640	CAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGA	29015
4457	6573	CUUCCUCC U UUCUCUG	10641	GCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAAG	29016
4461	6569	CUCCUUC U CUGCAGUG	10642	CACUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAG	29017
4463	6567	CCUUCUC U GCAGUGGC	10643	GCCACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAGG	29018
4466	6564	UUCUCUGC A GUGGCCAC	10644	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGAA	29019
4472	6558	GCAGUGGC C ACAACGUA	10645	UACGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGC	29020
4473	6557	CAGUGGCC A CAACGUAC	10646	GUACGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACUG	29021
4475	6555	GUGGCCAC A ACGUACAU	10647	AUGUACGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAC	29022
4482	6548	CAACGUAC A UGGUGUCA	10648	UGACACCA CUGAUGAG	GCCGUUAGGC	CGAA IUACGUUG	29023
4490	6540	AUGGUGUC A AGUGCUUC	10649	GAAGACAU CUGAUGAG	GCCGUUAGGC	CGAA IACACAU	29024
4496	6534	UCAAGUGC U UCCCAUGU	10650	ACAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGA	29025
4499	6531	AGUGCUUC C CAUGUCU	10651	AAGACAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGCACU	29026
4500	6530	GUGCUUCC C AUGUCUUC	10652	GAGACAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAC	29027
4501	6529	UGCUUCC A UGUCUUC	10653	GGAAGACA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACA	29028
4506	6524	CCCAUGUC U UCCCAUG	10654	CAUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUGGG	29029
4509	6521	AUGUCUUC C CCAUGAAG	10655	CUUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAU	29030
4510	6520	UGUCUUC C CAUGAAGU	10656	ACUUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACA	29031
4511	6519	GUCUUC C AUGAAGUG	10657	CACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAC	29032
4512	6518	UCUUC C A UGAAGUGC	10658	GCACUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGA	29033
4521	6509	UGAAGUGC U CAGGCAUC	10659	GAUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICACUUC	29034
4523	6507	AAGUGCUC A GGCAUCU	10660	AGAUGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGCACU	29035
4527	6503	GCUCAGGC A UCUCUCC	10661	GGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAGC	29036
4530	6500	CAGGCAUC U UCCCGAGA	10662	UCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCUG	29037
4534	6496	CAUCUUC C CAGAACCU	10663	AGGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAU	29038
4535	6495	AUCUUC C AGAACUC	10664	GAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAU	29039
4536	6494	UCUUC C GAACCUCA	10665	UGAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGA	29040

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4541	6489	CCCAGAAC C UCAUAGAG	10666	CUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGGG	29041
4542	6488	CCAGAACC U CAAUGAGC	10667	GCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUGG	29042
4544	6486	AGAACCUC A AUGAGCCC	10668	GGGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUCU	29043
4551	6479	CAAUGAGC C CUUUCUGA	10669	UCAGAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUUG	29044
4552	6478	AAUGAGCC C UAUCUGAG	10670	CUCAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAU	29045
4553	6477	AUGAGCCC U AUCUGAGA	10671	UCUCAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUCAU	29046
4557	6473	GCCCUAUC U GAGAACGU	10672	ACGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGGC	29047
4570	6460	ACGUUUUC C CGAGGCGA	10673	UCGCCUCG CUGAUGAG	GCCGUUAGGC	CGAA IAAAACGU	29048
4571	6459	CGUUUUC C GAGGCGAA	10674	UUCGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAACG	29049
4583	6447	GCGAAGUC C UUGAACGC	10675	GCGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACUUCGC	29050
4584	6446	CGAAGUCC U UGAACGCC	10676	GGCGUACA CUGAUGAG	GCCGUUAGGC	CGAA IGACUUCG	29051
4592	6438	UUGAACGC C UUUAGUGC	10677	GGCAUAAA CUGAUGAG	GCCGUUAGGC	CGAA ICGUUCAA	29052
4593	6437	UGAACGCC U UUAUGGCC	10678	GGCACUAA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUCA	29053
4601	6429	UUUAGUGC C UGGUGAUC	10679	GAUCACCA CUGAUGAG	GCCGUUAGGC	CGAA ICACUAAA	29054
4602	6428	UUAGUGCC U GGUGAUCC	10680	GGAUCACC CUGAUGAG	GCCGUUAGGC	CGAA IGCACUAA	29055
4610	6420	UGGUGAUC C GAGUACAC	10681	GUUACUC CUGAUGAG	GCCGUUAGGC	CGAA IAUACCA	29056
4617	6413	CCGAGUAC A CCCUGGCG	10682	CGCCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUACUCGG	29057
4619	6411	GAGUACAC C CUGGCGUC	10683	GACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUACUC	29058
4620	6410	AGUACACC C UGGCGUCA	10684	UGACGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUACUC	29059
4621	6409	GUACACCC U GGCGUCAA	10685	UUGACGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUAC	29060
4628	6402	CUGGCGUC A AUCCAGCG	10686	CGCUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACGCCAG	29061
4632	6398	CGUCAUUC C AGCGCGGC	10687	GCCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACG	29062
4633	6397	GUCAAUCC A GCGCGGCC	10688	GGCCGCGC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAC	29063
4641	6389	AGCGCGGC C UCAGAAUC	10689	GAUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGCU	29064
4642	6388	GCGCGGCC U CAGAAUCU	10690	AGAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGCGC	29065
4644	6386	GCGGCCUC A GAAUCUUC	10691	GAAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCGC	29066
4650	6380	UCAGAAUC U UCCUUCA	10692	UGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGA	29067
4653	6377	GAAUCUUC C UUUACCA	10693	UGGUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUUC	29068
4654	6376	AAUCUUC C UUCACCA	10694	UUGGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAUU	29069
4658	6372	UUCUUCU A CCAAGCUU	10695	AAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAA	29070
4660	6370	CCUUCAC C AAGCUUCG	10696	CGAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGG	29071
4661	6369	CUUUCACC A AGCUUCGU	10697	ACGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAAG	29072
4665	6365	CACCAAGC U UCGUGAUG	10698	CAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGUG	29073
4676	6354	GUGAUGAC U UCCAUUC	10699	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCAC	29074
4679	6351	AUGACUUC C ACUUCGUU	10700	AAACGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCAU	29075
4680	6350	UGACUUC A CUUCGUUG	10701	CAACGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUCA	29076
4682	6348	ACUUCAC U UCGUUGUU	10702	AACAACGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGU	29077
4694	6336	UUGUUGUC U UCUAAAUA	10703	AUUUAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAACAA	29078
4697	6333	UUGUCUUC U AAAAUUGU	10704	ACAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAA	29079
4713	6317	UGUUUGUC C UAGGACCA	10705	UGGUCCUA CUGAUGAG	GCCGUUAGGC	CGAA IACAACA	29080
4714	6316	GUUUGUCC U AGGACCAU	10706	AUGGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGACAAAC	29081
4720	6310	CCUAGGAC C AUCAAAGC	10707	GCUUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAGG	29082
4721	6309	CUAGGACC A UCAAAGCA	10708	UGC UUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUAG	29083
4724	6306	GGACCAUC A AAGCACCA	10709	UGGUGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUCC	29084
4729	6301	AUCAAGC A CCACUCC	10710	GGAGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGAU	29085
4731	6299	CAAAGCAC C ACCUCGG	10711	CCGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUUG	29086
4732	6298	AAAGCACC A CCUCGGU	10712	ACCGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUU	29087
4734	6296	AGCACCAC C UCCGGUCG	10713	CGACCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCU	29088
4735	6295	GCACCAC U CCGGUCGU	10714	ACGACCGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGC	29089
4737	6293	ACCACCUC C GGUCGUGG	10715	CCACGACC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGGU	29090
4752	6278	GGUAUGAC A CUCCAGCC	10716	GGCUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUACC	29091
4754	6276	UAUGACAC U CCAGCCGC	10717	GCGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUA	29092
4756	6274	UGACACUC C AGCCGUG	10718	CAGCGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCA	29093
4757	6273	GACACUCC A GCCGUGC	10719	GCACGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUC	29094
4760	6270	ACUCCAGC C GCUGCAAC	10720	GUUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAGU	29095
4763	6267	CCAGCCGC U GCAACCUU	10721	AAGGUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGG	29096
4766	6264	GCCGUGC A ACCUUGUA	10722	UACAAGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCGC	29097
4769	6261	GCUGCAAC C UUGUAAGC	10723	GCUUACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCAGC	29098
4770	6260	CUGCAACC U UGUAAAGC	10724	GGCUACA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCAG	29099
4778	6252	UUGUAAGC C AGCCAAAC	10725	GUUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUUACA	29100
4779	6251	UGUAAGCC A GCCAAACU	10726	AGUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGCUUACA	29101

Table IX

4782	6248	AAGCCAGC C AAACUGGC	10727	GCCAGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGCUU	29102
4783	6247	AGCCAGCC A AACUGGCA	10728	UGCCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGCUU	29103
4787	6243	AGCCAAAC U GGCAGAUC	10729	GAUCUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUGGCU	29104
4791	6239	AAACUGGC A GAUCUGCA	10730	UGCAGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAGUUU	29105
4796	6234	GGCAGAUC U GCAGUCCU	10731	AGGACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCUGCC	29106
4799	6231	AGAUCUGC A GUCCUCA	10732	UUGAGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGAUCU	29107
4803	6227	CUGCAGUC C UCAACAGU	10733	ACUGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGCAG	29108
4804	6226	UGCAGUCC U CAACAGUU	10734	AACUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACUGCA	29109
4806	6224	CAGUCCUC A ACAGUUC	10735	GGAACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGACUG	29110
4809	6221	UCCUCAAC A GUUCCAGA	10736	UCUGGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAGGA	29111
4814	6216	AAACGUUC C AGAAAGUU	10737	AACUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACUGUU	29112
4815	6215	ACAGUUC C A GAAAGUU	10738	AAACUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAACUGU	29113
4828	6202	GUUUUUUC U CUCUUCUC	10739	GAGAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAAAAC	29114
4830	6200	UUUUUCUC U CUUCUCCU	10740	AGGAGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAAAA	29115
4832	6198	UUUCUCUC U UCUCUCUC	10741	AGAGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGAAA	29116
4835	6195	CUCUCUUC U CCUCUGAG	10742	CUCAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGAGAG	29117
4837	6193	CUCUUCUC C UCUGAGCC	10743	GGCUCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGAG	29118
4838	6192	UCUUCUCC U CUGAGCCG	10744	CGGUCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGAGA	29119
4840	6190	UUCUCCUC U GAGCCGGU	10745	ACCGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGAGAA	29120
4845	6185	CUCUGAGC C GGUAUUCC	10746	GGAUUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCAGAG	29121
4853	6177	CGGUUUAUC C CCAUCCAU	10747	AUGGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUAACCG	29122
4854	6176	GGUAUUC C CAUCCAUG	10748	CAUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUAUAC	29123
4855	6175	GUUAUCCC C AUCCAUGG	10749	CCAUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAAUAC	29124
4856	6174	UAUUCCCC A UCCAUGGU	10750	ACCAUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAAUA	29125
4859	6171	UCCCCAUC C AUGGUUAU	10751	UAUACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGGGA	29126
4860	6170	CCCCAUCC A UGGUAUUA	10752	AUAUACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUGGGG	29127
4871	6159	GUUAUAAC C UUCUCACG	10753	CGUGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUAUAC	29128
4872	6158	UAUAUAAC U UCUACACG	10754	GCGUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUAUAUA	29129
4875	6155	AUACCUUC U CACGCUCU	10755	AGAGCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGGUUA	29130
4877	6153	ACCUUCUC A CGCUCUGG	10756	CCAGAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAGGU	29131
4881	6149	UCUCACGC U CUGGUUGG	10757	CCAACCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGUGAGA	29132
4883	6147	UCACGCUC U GGUUGGUA	10758	UACCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCGUGA	29133
4905	6125	GAGCGAUC A GUCCGUUU	10759	AAACGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCGCUC	29134
4909	6121	GAUCAGUC C GUUUGGCA	10760	UGCCAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGAUC	29135
4917	6113	CGUUUGGC A UGUUGAUG	10761	CAUCAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAAACG	29136
4931	6099	AUGUUGUC C AGCAUGAU	10762	AUCAUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAACAU	29137
4932	6098	UGUUGUCC A GCAUGAUU	10763	AAUCAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACAACA	29138
4935	6095	UGUCCAGC A UGAUUCGU	10764	ACGAUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGACA	29139
4946	6084	AUUCGUGC C UCAGUCCA	10765	UGGACUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACGAU	29140
4947	6083	UUCGUGCC U CAGUCCAA	10766	UUGGACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCACGAA	29141
4949	6081	CGUGCCUC A GUCCAUG	10767	CAUUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGCACG	29142
4953	6077	CCUCAGUC C AAUGGGCG	10768	CGCCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGAGG	29143
4954	6076	CUCAGUCC A AUGGGCGA	10769	UCGCCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACUGAG	29144
4976	6054	GAGUCGUC U UCAUUCGU	10770	ACGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGACUC	29145
4979	6051	UCGUCUUC A UUCGUGUG	10771	CACACGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGACGA	29146
4989	6041	UCGUGUGC C CCCAUAA	10772	UUAUGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACACGA	29147
4990	6040	CGUGUGCC C CCCAUAA	10773	GUUAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCACACG	29148
4991	6039	GUGUGCCC C CCAUAACA	10774	UGUUAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCACAC	29149
4992	6038	UGUGCCCC C CAUAACAG	10775	CUGUUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGCACA	29150
4993	6037	GUGCCCCC C AUAACAGU	10776	ACUGUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGGCAC	29151
4994	6036	UGCCCCCC A UAACAGUA	10777	UACUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGGGCA	29152
4999	6031	CCCAUAAC A GUACUCAU	10778	AUGAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUAUGGG	29153
5004	6026	AAAGUAC U CAUCACCA	10779	UGGUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUACUGUU	29154
5006	6024	CAGUACUC A UCACCAAC	10780	GUUGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUACUG	29155
5009	6021	UACUCAUC A CCAACUUG	10781	CAAGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAGUA	29156
5011	6019	CUCAUCAC C AACUUGCG	10782	CCCAAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAGAG	29157
5012	6018	UCAUCACC A ACUUGCGA	10783	UCGCAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGAUGA	29158
5015	6015	UCACCAAC U UGCGACGG	10784	CCGUCGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGGUGA	29159
5029	6001	CGGAUUUC U ACCGAUAC	10785	GUUUCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAUCCG	29160
5032	5998	AUUUCUAC C GAUACGUC	10786	GACGUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGAAAU	29161
5041	5989	GAUACGUC C ACGUCUCU	10787	AGAGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGUUAC	29162

Table IX

5042	5988	AUACGUCC A CGUCUCUG	10788	CAGAGACG CUGAUGAG	GCCGUUAGGC	CGAA IGACGUU	29163
5047	5983	UCCACGUC U CUGGGCGG	10789	CCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGA	29164
5049	5981	CACGUCU U GGGCGGCA	10790	UGCCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGACGUG	29165
5057	5973	UGGGCGG A CUAGCUGC	10791	GCAGCUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCCCA	29166
5059	5971	GGCGGCAC U AGCUGCUG	10792	CAGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGCC	29167
5063	5967	GCACUAGC U GCUGUCAC	10793	GUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGUGC	29168
5066	5964	CUAGCUGC U GUCACUGC	10794	GCAGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUAG	29169
5070	5960	CUGCUGUC A CUGCAGAU	10795	AUCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IACAGCAG	29170
5072	5958	GCUGUCAC U GCAGAUGG	10796	CCAUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAGC	29171
5075	5955	GUCACUGC A GAUGGUUC	10797	GAACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGAC	29172
5084	5946	GAUGGUUC U CCCAGGAU	10798	AUCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAACCAUC	29173
5086	5944	UGGUUCUC C CAGGAUCA	10799	UGAUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAACCA	29174
5087	5943	GGUUCUCC C AGGAUCAC	10800	GUGAUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAACC	29175
5088	5942	GUUCUCCC A GGAUCACU	10801	AGUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAC	29176
5094	5936	CCAGGAUC A CUCUCCCU	10802	AGGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUGG	29177
5096	5934	AGGAUCAC U CUCCCUUC	10803	GAAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCU	29178
5098	5932	GAUCACUC U CCCUUCUC	10804	GAGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAUC	29179
5100	5930	UCACUCUC C CUUCUCCU	10805	AGGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGA	29180
5101	5929	CACUCUCC C UUCUCCUU	10806	AAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUG	29181
5102	5928	ACUCUCCC U UCUCUUC	10807	GAAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGU	29182
5105	5925	CUCCCUUC U CCUCUGU	10808	ACAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAG	29183
5107	5923	CCUUCUC C UUCUGUUA	10809	UAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGGG	29184
5108	5922	CCUUCUCC U UCUGUUAU	10810	AUAACAGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGG	29185
5111	5919	UCUCUUC U GUUAUGAU	10811	AUCAUAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGA	29186
5130	5900	UUGGUUUC A CACUCUUC	10812	GAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAACCAA	29187
5132	5898	GGUUCAC A CUCUCCG	10813	CGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAACC	29188
5134	5896	UUUCACAC U CUUCCGGC	10814	CCCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGAAA	29189
5136	5894	UCACACUC U UCCGGCUG	10815	CAGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGA	29190
5139	5891	CACUCUUC C GGCUGUCA	10816	UGACAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGUG	29191
5143	5887	CUUCCGGC U GUCAAUCA	10817	UGAUUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAAG	29192
5147	5883	CGGCUGUC A AUCACCCU	10818	AGGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCG	29193
5151	5879	UGUCAUUC A CCCUGCUC	10819	GAGCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUGAGCA	29194
5153	5877	UCAUACAC C CUGCUCGC	10820	GCGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGA	29195
5154	5876	CAAUACCC C UGCUCGCC	10821	GGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUG	29196
5155	5875	AAUCACCC U GCUCGCCU	10822	AGGCAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAUU	29197
5158	5872	CACCCUGC U CGCCUUGA	10823	UCAAGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGUG	29198
5162	5868	CUGCUCGC C UUGAAGUU	10824	AAUUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAG	29199
5163	5867	UGCUCGCC U UGAAGUUA	10825	UAACUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCA	29200
5174	5856	AAGUAGC C CCCAUUUC	10826	GAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUAACTU	29201
5175	5855	AGUAGCC C CCAUUAU	10827	UGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAACU	29202
5176	5854	GUUAGCCC C CAUUAUCAG	10828	CUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAAC	29203
5177	5853	UAGCCCCC C AUUUCAGA	10829	UCUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUAA	29204
5178	5852	UAGCCCC A UUUCAGAU	10830	AUCUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUA	29205
5183	5847	CCCAUUC A GAUAUGUC	10831	GACAUUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGG	29206
5192	5838	GAUAUGUC U GUUGUGAU	10832	AUCACAAC CUGAUGAG	GCCGUUAGGC	CGAA IACAUAUC	29207
5204	5826	GUGAUUAC A AAGUCCCA	10833	UGGGACUU CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAC	29208
5210	5820	ACAAAGUC C CAAUCAUC	10834	GAUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUUGU	29209
5211	5819	CAAAGUCC C AAUCAUCG	10835	CGAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUUU	29210
5212	5818	AAAGUCCC A AUCAUCGU	10836	ACGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGACUUU	29211
5216	5814	UCCCAUUC A UCGUUCUU	10837	AAGAACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGA	29212
5223	5807	CAUCGUUC U UACAUUU	10838	AAAAGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAACGAUG	29213
5227	5803	GUUCUUA A UUUUGGGU	10839	ACCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IUAGAAC	29214
5238	5792	UUGGGUAC U CCGUCUCG	10840	CGAGACGG CUGAUGAG	GCCGUUAGGC	CGAA IUACCCAA	29215
5240	5790	GGGUACUC C GUCUCGUA	10841	UACGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGUACCC	29216
5244	5786	ACUCCGUC U CGUACGAC	10842	GUCGUACG CUGAUGAG	GCCGUUAGGC	CGAA IACGGAGU	29217
5253	5777	CGUACGAC U UUCUGUUC	10843	GAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUACG	29218
5257	5773	CGACUUUC U GUUCAUU	10844	AAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUCG	29219
5262	5768	UUCUGUUC A AUUGGACU	10845	AGUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA IAACAGAA	29220
5270	5760	AAUUGGAC U ACUUUCUU	10846	AAGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAUU	29221
5273	5757	UGGACUAC U UUCUUUCC	10847	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUAGUCCA	29222
5277	5753	CUACUUUC U UCCAGCA	10848	UGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUAG	29223

Table IX

5281	5749	UUUCUUUC C AGCACGUU	10849	AACGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAGAAA	29224
5282	5748	UUUUUUCC A GCACGUUG	10850	CAACGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAAGAA	29225
5285	5745	UUUCCAGC A CGUUGUAG	10851	CUACAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGAAA	29226
5296	5734	UUGUAGGC A AAGGGCAA	10852	UUGCCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCUACAA	29227
5303	5727	CAAAGGGC A AUCUCAUU	10853	AAUGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCUUUG	29228
5307	5723	GGGCAUUC U CAUUCGCC	10854	GGGGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUGCCC	29229
5309	5721	GCAAUUCU A UUCCCCAU	10855	AUGGGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUUGC	29230
5313	5717	UCUCAUUC C CCAUCUUG	10856	CAAGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUGAGA	29231
5314	5716	CUCAUUCU C CAUCUUGA	10857	UCAAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAUGAG	29232
5315	5715	UCAUUCU C AUCUUGAC	10858	GCAAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAUGA	29233
5316	5714	CAUUCUCC A UCUUGACA	10859	UGUCAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGAAUG	29234
5319	5711	UCCCCAUC U UGACACUA	10860	UAGUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGGGA	29235
5324	5706	AUCUUGAC A CUAGGCAC	10861	GUGCCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCAAGAU	29236
5326	5704	CUUGACAC U AGGCACAA	10862	UUGUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUCAAG	29237
5331	5699	CACUAGGC A CAAACCAA	10863	UUGGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCUAGUG	29238
5333	5697	CUAGGCAC A AACCACAA	10864	GUUUGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGCCUAG	29239
5337	5693	GCACAAAC C AAACCGUC	10865	GACGGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUGUGC	29240
5338	5692	CACAAACC A AACCGUCU	10866	AGACGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUUGUG	29241
5342	5688	AACCAAAC C GUCUUCUCC	10867	GGGAAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUGGUU	29242
5346	5684	AAACCGUC U UCCCGGUG	10868	CACCGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGGUUU	29243
5349	5681	CCGUCUUC C CGUGUAU	10869	AUACACCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGACGG	29244
5350	5680	CGUCUUC C GGUGUAU	10870	AAUACACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAGACG	29245
5360	5670	GUGUAUUC U GUGAUCCA	10871	UGGAUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUACAC	29246
5367	5663	CUGUGAUC C AUUCGUU	10872	AUACGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCACAG	29247
5368	5662	UUGUAUC A UUCGUU	10873	GAUACGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUCACA	29248
5377	5653	UGUGUAUC C AGAGUUC	10874	GGAAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACGAA	29249
5378	5652	UCGUAUUC A GAGUCCA	10875	UGGAACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUAACGA	29250
5385	5645	CAGAGUUC C AAGCUCGA	10876	UCGAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACUCUG	29251
5386	5644	AGAGUUC A AGCUCGAU	10877	AUCGAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAACUCU	29252
5390	5640	UUCCAAGC U CGAUCCGG	10878	CCGGAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGGAA	29253
5396	5634	GCUCGAUC C GGGAUUC	10879	GAGAUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCGAGC	29254
5403	5627	CCGGGAUC U CAGUCUGU	10880	ACAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUCCGG	29255
5405	5625	GGGAUCUC A GUCUGUAA	10881	UUACAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUCCC	29256
5409	5621	UCUCAGUC U GUAAGUCG	10882	CGACUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGAGA	29257
5436	5594	AAUUGGAC U CUGGGAAU	10883	AUUCUCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCCAAU	29258
5438	5592	UUGGACUC U GGGAAUGG	10884	CCAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUCCAA	29259
5450	5580	AAUGGAUC U GAAGUGCC	10885	GGCACUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCCAUU	29260
5458	5572	UGAAGUGC C UGGUGGGG	10886	CCCCACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACUUA	29261
5459	5571	GAAGUGCC U GGUGGGGU	10887	ACCCACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCACUUC	29262
5471	5559	GGGUGGC U GUCAUGAA	10888	UUCAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACCCC	29263
5475	5555	UGGUGUC A UGAUAU	10889	AAUAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAGCCA	29264
5486	5544	AAUAUUGC C GCCGCCUC	10890	GAGGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAAUAU	29265
5489	5541	AUUGCCGC C GCCUCCCC	10891	GGGAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGCAAU	29266
5492	5538	GCCGCCGC C UCCCUAG	10892	CUAGGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGCGGC	29267
5493	5537	CCGCCGCC U CCCCUAGC	10893	GUAGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGCGG	29268
5495	5535	GCCGCCUC C CCUAGCUC	10894	GAGCUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGCGG	29269
5496	5534	CCGCCUC C CUAGCUCG	10895	CGAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGCGG	29270
5497	5533	CGCCUCC C UAGCUCGA	10896	UCGAGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAGCG	29271
5498	5532	GCCUCCCC U AGCUCGAC	10897	GUAGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGAGGC	29272
5502	5528	CCCUAGC U CGACCUU	10898	AAAGGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAGGGG	29273
5507	5523	AGCUCGAC C UUUGUGGA	10899	UCCACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCGAGCU	29274
5508	5522	GCUCGACC U UUGUGGAA	10900	UUCACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUCGAGC	29275
5524	5506	AAUGUAAC C UCUGUCG	10901	CAGCAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUACAU	29276
5525	5505	AUGUAACC U CUUGUCG	10902	GCAGCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUAU	29277
5527	5503	GUAAUCC U UGUGCAA	10903	UUGCAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGUUAC	29278
5531	5499	CCUUGUC U GCAAUGCU	10904	AGCAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAAAGAG	29279
5534	5496	CUUGCUC A AUGCUAGC	10905	GUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGCAAG	29280
5539	5491	UGCAAUGC U AGCUGGGU	10906	ACCCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUUGCA	29281
5543	5487	AUGCUAGC U GGGUCGGU	10907	ACCGACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAGCAU	29282
5561	5469	AAAUAGC C UCAUCCA	10908	AUGGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCAUU	29283
5562	5468	AAUGAGCC U CAUCCAUC	10909	GAUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUCAU	29284

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5564	5466	UGAGCCUC A UCCAUCAC	10910	GUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUCA	29285
5567	5463	GCCUCAUC C AUCACGAA	10911	UUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGAGGC	29286
5568	5462	CCUCAUCC A UCACGAAC	10912	GUUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGG	29287
5571	5459	CAUCCAUC A CGAACAGG	10913	CCUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAUG	29288
5577	5453	UCACGAAC A GGUUGUAG	10914	CUACAACC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGUGA	29289
5592	5438	AGUUCGGC A CCCUGUGA	10915	UCACAGGG CUGAUGAG	GCCGUUAGGC	CGAA ICCGAACU	29290
5594	5436	UUCGGCAC C CUGUGAGG	10916	CCUCACAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGAA	29291
5595	5435	UCGGCACC C UGUGAGGA	10917	UCCUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCCGA	29292
5596	5434	CGGCACCC U GUGAGGAG	10918	CUCCUCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGCCG	29293
5607	5423	GAGGAGAC A UCAGCCUG	10919	CAGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUC	29294
5610	5420	GAGACAUC A GCCUGUGG	10920	CCACAGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCUC	29295
5613	5417	ACAUCAGC C UGUGGGUG	10921	CACCCACA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGU	29296
5614	5416	CAUCAGCC U GUGGGUGA	10922	UCACCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAUG	29297
5630	5400	AGGGUAGC A UGACACAU	10923	AUGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUACCCU	29298
5635	5395	AGCAUGAC A CAUGACAU	10924	AUGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGCU	29299
5637	5393	CAUGACAC A UGACAUCA	10925	UGAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUG	29300
5642	5388	CACAUGAC A UCAACAAU	10926	AUUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGUG	29301
5645	5385	AUGACAUC A ACAAUUCU	10927	GAGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCAU	29302
5648	5382	ACAUCAAC A AUCUCAUU	10928	AAUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	29303
5652	5378	CAACAAUC U CAUUUCCA	10929	UGGAAAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGUGUUG	29304
5654	5376	ACAAUCUC A UUUCCAUU	10930	AAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGUG	29305
5659	5371	CUCAUUUC C AUUAUGUU	10931	AACAUAUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUGAG	29306
5660	5370	UCAUUUCC A UUAUGUUC	10932	GAACAUAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAAUGA	29307
5669	5361	UUAUGUUC U CUGGGCAC	10933	GUGCCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAACAUAU	29308
5671	5359	AUGUUCUC U GGGCACUG	10934	CAGUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAACAU	29309
5676	5354	CUCUGGGC A CUGCGGAU	10935	AUCCGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAGAG	29310
5678	5352	CUGGGCAC U GCGGAUGU	10936	ACAUCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCAG	29311
5688	5342	CGGAUGUC U GGUACCGG	10937	CCGGUACC CUGAUGAG	GCCGUUAGGC	CGAA IACAUCCG	29312
5694	5336	UCUGGUAC C GGAUGGGC	10938	GCCCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUACCAGA	29313
5703	5327	GGAUGGGC A GUCCUCUC	10939	GAGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCAUCC	29314
5707	5323	GGGCAGUC C UCUCAGUG	10940	CACUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGCCC	29315
5708	5322	GGCAGUCC U CUCAGUGC	10941	GCACUGAG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGCC	29316
5710	5320	CAGUCCUC U CAGUCUUC	10942	AAGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGUC	29317
5712	5318	GAGUCUC A GUGCUUCA	10943	UGAAGCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAC	29318
5717	5313	CUCAUGUC U UCAGCCAU	10944	AUGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICACUGAG	29319
5720	5310	AGUGCUUC A GCCAUCUC	10945	GAGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGCACU	29320
5723	5307	GUUCAGC C AUCUCAGC	10946	GCUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAGC	29321
5724	5306	CUUCAGCC A UCUCAGCA	10947	UGCUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAAG	29322
5727	5303	CAGCCAUC U CAGCAGCC	10948	GGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCUG	29323
5729	5301	GCCAUCUC A GCAGCCAC	10949	GUGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGC	29324
5732	5298	AUCUCAGC A GCCACAAC	10950	GUUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGAU	29325
5735	5295	UCAGCAGC C ACAACCCU	10951	AGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGA	29326
5736	5294	CAGCAGCC A CAACCCUG	10952	CAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCUG	29327
5738	5292	GCAGCCAC A ACCCUGGU	10953	ACCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUGC	29328
5741	5289	GCCACAAC C CUGGUUGG	10954	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGC	29329
5742	5288	CCACAACC C UGGUUGGU	10955	ACCAACCA CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUGG	29330
5743	5287	CACAACCC U GGUUGGUG	10956	CACCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGUG	29331
5753	5277	GUUGGUC U AGCACGGC	10957	GCCGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAC	29332
5757	5273	GUGCUAGC A CGGCUGUU	10958	AACAGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAC	29333
5762	5268	AGCACGGC U GUUCUCAG	10959	CUGAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGCU	29334
5767	5263	GGCUGUUC U CAGUCUUC	10960	GAAGACUG CUGAUGAG	GCCGUUAGGC	CGAA IAACAGCC	29335
5769	5261	CUGUUCUC A GUCUUCUG	10961	CAGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAACAG	29336
5773	5257	UCUCAGUC U UCUGUUUA	10962	UAAACAGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGAGA	29337
5776	5254	CAGUCUUC U GUUUUUGG	10963	CCAUAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGACUG	29338
5786	5244	UUUAUGGC C UCUUUGAU	10964	AUCAAAAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAAA	29339
5787	5243	UUUAUGGC U CUUUGAUG	10965	CAUCAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAUAA	29340
5789	5241	AUGGCCUC U UUGAUGAU	10966	AUCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCAU	29341
5799	5231	UGAUGAUC U GUGGCAGA	10967	UCUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUCA	29342
5805	5225	UCUGUGGC A GAAUCCUC	10968	GAGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAGA	29343
5811	5219	GCAGAAUC C UCCUUGUU	10969	AACAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGC	29344
5812	5218	CAGAAUCC U CCUUGUUU	10970	AAACAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUCUG	29345

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5814	5216	GAAUCCUC C UGUUUUA	10971	UAAAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAUUC	29346
5815	5215	AAUCCUCC U UGUUUUAC	10972	GUAAAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGAUU	29347
5824	5206	UGUUUUAC C GCGCCCG	10973	CCGGCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAAACA	29348
5830	5200	ACCGGCGC C GGAUGGA	10974	UCCAUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCCGU	29349
5843	5187	UGGAGAU C AGUACAGU	10975	ACUGUACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCCA	29350
5844	5186	GGAGAUCC A GUACAGUG	10976	CACUGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCUCC	29351
5849	5181	UCCAGUAC A GUGAUCUG	10977	CAGAUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACUGGA	29352
5856	5174	CAGUGAUC U GUUUUUUC	10978	GAAAAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUACUG	29353
5865	5165	GUUUUUUC C UCAGCAUC	10979	GAUGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAAC	29354
5866	5164	UUUUUUCC U CAGCAUCU	10980	AGAUGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAAA	29355
5868	5162	UUUUCCUC A GCAUCUCA	10981	UGAGAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAAA	29356
5871	5159	UCCUCAGC A UCUCAGGU	10982	ACCUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAGGA	29357
5874	5156	UCAGCAUC U CAGGUUCG	10983	CGAACCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCUGA	29358
5876	5154	AGCAUCUC A GGUUCGAA	10984	UUCGAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUCU	29359
5887	5143	UUCGAAUC C GGCUGGGA	10985	UCCCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCGAA	29360
5891	5139	AAUCCGGC U GGAUUGG	10986	CCAAUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGAUU	29361
5901	5129	GGAUUGGC U CAUCCAUC	10987	GAUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUCC	29362
5903	5127	AUUGGCUC A UCCAUCU	10988	AGGAUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCAAU	29363
5906	5124	GGCUCAUC C AUCCUUUC	10989	GAAAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGGCC	29364
5907	5123	GCUCAUC A UCCUUUCA	10990	UGAAAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGAGC	29365
5910	5120	CAUCCAUC C UUCACCC	10991	GGGUGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAUG	29366
5911	5119	AUCCAUC U UUCACCCU	10992	AGGGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGAU	29367
5915	5115	AUCCUUUC A CCUGCAC	10993	GUGCAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGGAU	29368
5917	5113	CCUUUCAC C CUGCACUA	10994	UAGUGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAAGG	29369
5918	5112	CUUUCACC C UGCACUAU	10995	AUAGUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAAAG	29370
5919	5111	UUUACCC U GCACUAUC	10996	GAUAGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAAA	29371
5922	5108	CACCCUGC A CUAUCGCG	10997	CGCGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGGUG	29372
5924	5106	CCCUGCAC U AUCGCGCU	10998	AGCGCGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAGGG	29373
5932	5098	UAUCGCGC U UAUGUAUG	10999	CAUACAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCAUA	29374
5944	5086	GUAGAGC C GUUGGGCA	11000	UGCCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUAC	29375
5952	5078	CGUUGGGC A UUAUGACU	11001	AGUCAUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCAACG	29376
5960	5070	AUAUGAC U CCAUUGCC	11002	GGCAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUAAU	29377
5962	5068	UAUGACUC C AUUGCCAU	11003	AUGGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCAUA	29378
5963	5067	AUGACUC A UUGCCAUA	11004	UAUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCAU	29379
5968	5062	UCCAUUGC C AUAAGGCC	11005	GGCUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGGA	29380
5969	5061	CCAUUGCC A UAAAGCCC	11006	GGGCUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAUGG	29381
5976	5054	CAUAAAGC C CAAUCACA	11007	UGUGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUAUG	29382
5977	5053	AUAAGGCC C AAUCACAU	11008	AUGUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUUAU	29383
5978	5052	UAAAGCCC A AUCACAUC	11009	GAUGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUUUA	29384
5982	5048	GCCCAAUC A CAUACCG	11010	CGGUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGGC	29385
5984	5046	CCAUCAC A UCACCGU	11011	AACGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUUGG	29386
5987	5043	AACAUC A CCGUUUU	11012	AAAAACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAU	29387
5989	5041	CACAUCAC C GUUUUGU	11013	ACAAAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUGUG	29388
5999	5031	UUUUUGUC C ACUAUUGG	11014	CCAAUAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAAAA	29389
6000	5030	UUUGUCC A CUAUUGGU	11015	ACCAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAAAA	29390
6002	5028	UUGUCCAC U AUUGGUGA	11016	UCACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGACAA	29391
6013	5017	UGGUGAGC C UGAUGUUC	11017	GAACAUC A CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCACCA	29392
6014	5016	GGUGAGCC U GAUGUUC	11018	GGAACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCACC	29393
6022	5008	UGAUGUUC C AGUGGGGA	11019	UCCCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAUCA	29394
6023	5007	GAUGUUC A GUGGGGAA	11020	UCCCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAUC	29395
6035	4995	GGGAAGUC C AAAGUAC	11021	GUGACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCCCC	29396
6036	4994	GGAAGUCC A AAGUCACG	11022	CGUGACTU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACTUCC	29397
6042	4988	CCAAAGUC A CGGCCCG	11023	CGGGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUUGG	29398
6047	4983	GUACCGGC C CCGAUUUC	11024	GAAAUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGUGAC	29399
6048	4982	UCACGGCC C CGAUUUCU	11025	AGAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCGUGA	29400
6049	4981	CACGGCCC C GAUUUCU	11026	GAGAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCGUG	29401
6056	4974	CCGAUUC U CCUUCAGG	11027	CUGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAUCCG	29402
6058	4972	GAUUUCU C UUCAGGUG	11028	CACCUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAUUC	29403
6059	4971	AUUUCUCC U UCAGGUGU	11029	ACACCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAAU	29404
6062	4968	UCUCCUUC A GGUUUUU	11030	AAAACACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGAGA	29405
6075	4955	UUUGAAC A CCCUGGU	11031	ACCAGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAAAAA	29406

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6077	4953	UGAACAC C CCUGGUUU	11032	AAACCAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAA	29407
6078	4952	UGAACACC C CUGGUUUC	11033	GAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUA	29408
6079	4951	GAACACCC C UGGUUUCG	11034	CGAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUUC	29409
6080	4950	AACACCCC U GGUUUCGU	11035	ACGAAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUUC	29410
6090	4940	GUUUCGUC U GGACGUUC	11036	GAACGUCC CUGAUGAG	GCCGUUAGGC	CGAA IACGAAAC	29411
6099	4931	GGACGUUC U UAACGUUC	11037	GAACGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAACGUCC	29412
6108	4922	UAACGUUC U UGCCAGGU	11038	ACCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAACGUUA	29413
6112	4918	GUUCUUGC C AGGUUCCA	11039	UGGAACCU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGAAC	29414
6113	4917	UUCUUGCC A GGUUCCAC	11040	GUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGAA	29415
6119	4911	CCAGGUUC C ACCACAAC	11041	AUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAACCUGG	29416
6120	4910	CAGGUUCC A CCACAAC	11042	GAUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAACCUG	29417
6122	4908	GGUUCACC C ACAAUCAU	11043	AUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAACC	29418
6123	4907	GUUCCACC A CAAUCAUC	11044	GAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAAC	29419
6125	4905	UCCACCAC A AUCAUCUG	11045	CAGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGGA	29420
6129	4901	CCACAAC A UCUGCACC	11046	GGUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGG	29421
6132	4898	CAAUCAUC U GCACCUCA	11047	UGAGGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUAUGG	29422
6135	4895	UCAUCUGC A CCUCAUCC	11048	GGAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUGA	29423
6137	4893	AUCUGCAC C UCAUCCUG	11049	CAGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAU	29424
6138	4892	UCUGCACC U CAUCCUGC	11050	GCAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCAGA	29425
6140	4890	UGCACCU C UCCUGCCC	11051	GGGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGCA	29426
6143	4887	ACCUCAUC C UGCCCGUU	11052	AACGGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGU	29427
6144	4886	CCUCAUCC U GCCCGUUC	11053	GAACGGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGG	29428
6147	4883	CAUCCUGC C CGUCCAC	11054	GUGGAACG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAUG	29429
6148	4882	AUCCUGCC C GUUCCACU	11055	AGUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGGAU	29430
6153	4877	GCCCGUUC C ACUUGUGC	11056	GCACAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAACGGGC	29431
6154	4876	CCCGUUC A CUUGUGCU	11057	AGCACAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAACGGG	29432
6156	4874	CGUCCAC U UGUGCUGC	11058	GCAGCACA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAACG	29433
6162	4868	ACUUGUG C GCAAUUUC	11059	GAAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICACAAGU	29434
6165	4865	UGUGCUGC A AUUUCAG	11060	CUGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCACA	29435
6171	4859	GCAAUUUC C AGGUGCCU	11061	AGGACCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGC	29436
6172	4858	CAAUUUC A GGGUCCUC	11062	GAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAUUG	29437
6178	4852	CCAGGGUC C UCCGUAA	11063	GUUACGGA CUGAUGAG	GCCGUUAGGC	CGAA IACCCUGG	29438
6179	4851	CAGGGUCC U CCGUAA	11064	UGUACGG CUGAUGAG	GCCGUUAGGC	CGAA IGACCCUG	29439
6181	4849	GGGUCCUC C GUAACAA	11065	UUUGUAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGACCC	29440
6187	4843	UCCGUAA A AAGUCGAU	11066	AUCGACUU CUGAUGAG	GCCGUUAGGC	CGAA IUUACGGA	29441
6197	4833	AGUCGAUC C UCCUUGAC	11067	GUCAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCAGU	29442
6198	4832	GUCGAUC C CUUGACA	11068	UGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAUCGAC	29443
6200	4830	CGAUCCUC C UUGACACU	11069	AGUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUCG	29444
6201	4829	GAUCCUCC U UGACACUG	11070	CAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUC	29445
6206	4824	UCCUUGAC A CUGCCCCA	11071	UGGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGGA	29446
6208	4822	CUUGACAC U GCCCCAGU	11072	ACUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAG	29447
6211	4819	GACACUGC C CCAGUAUG	11073	CAUACUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGUC	29448
6212	4818	ACACUGCC C CAGUAUGG	11074	CCAUAUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUGU	29449
6213	4817	CACUGCCC C AGUAUGGG	11075	CCCAUACU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGUG	29450
6214	4816	ACUGCCCC A GUAUGGGU	11076	ACCCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCAGU	29451
6224	4806	UAUGGGUC C AGGCGGCC	11077	GGCCGCCU CUGAUGAG	GCCGUUAGGC	CGAA IACCCAUA	29452
6225	4805	AUGGGUCC A GGCGGCC	11078	GGCGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGACCAU	29453
6232	4798	CAGGCGGC C CUCUCCGC	11079	GCGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCCUG	29454
6233	4797	AGGCGGCC C UCUCGCCU	11080	AGCGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCGCCU	29455
6234	4796	GGCGGCC U CUCCGCUC	11081	GAGCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGC	29456
6236	4794	CGGCCUC U CCGCUCAU	11082	AUGAGCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGCCG	29457
6238	4792	GCCUCUC C GCUCAUCA	11083	CUAUGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGGC	29458
6241	4789	CUCUCCGC U CAUCAAAG	11084	CUUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAGAG	29459
6243	4787	CUCCGCUC A UCAAAGCG	11085	CGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGAG	29460
6246	4784	CGCUCAUC A AAGCGGCU	11086	AGCCGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCG	29461
6254	4776	AAAGCGGC U CCUUUGU	11087	ACAAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCUU	29462
6256	4774	AGCGGCUC C UUUUGUUG	11088	CAACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGCU	29463
6257	4773	GCGGCUC U UUUUGUUG	11089	ACAACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGCU	29464
6270	4760	UUGUAUGC C AAAGGGUG	11090	CACCCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAUACAA	29465
6271	4759	UGUAUGCC A AAGGGUGU	11091	ACACCCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUACA	29466
6287	4743	UGGAAAAC A CCUCAAAC	11092	GUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCCA	29467

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6289	4741	GAAAACAC C UUCAACCA	11093	UGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	29468
6290	4740	AAAACACC U UCAACCAU	11094	AUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	29469
6293	4737	ACACCUUC A ACCAUCAC	11095	GUGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUGU	29470
6296	4734	CCUUCAAC C AUCACGCC	11096	GGCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGG	29471
6297	4733	CUUCAACC A UCACGCC	11097	GGCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAAG	29472
6300	4730	CAACCAUC A CGCCGCU	11098	AGCGGGCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUUG	29473
6304	4726	CAUCACGC C CGCUCCUG	11099	CAGGAGCG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAUG	29474
6305	4725	AUCACGCC C GCUCUGC	11100	GCAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAU	29475
6308	4722	ACGCCCGC U CCUGCUUG	11101	CAAGCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGGGCGU	29476
6310	4720	GCCCGCUC C UGCUUGAU	11102	AUCAAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGGC	29477
6311	4719	CCCGCUC C U GCUUGAU	11103	UAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCGGG	29478
6314	4716	GCUCUGC U UGAUAACU	11104	AGUUAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGC	29479
6322	4708	UGAUAAC U GCGAGCA	11105	UGCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAA	29480
6325	4705	AUAACUGC C GAGCAGCC	11106	GGCUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUAU	29481
6330	4700	UGCCGAGC A GCCCAGCA	11107	UCGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGCA	29482
6333	4697	CGAGCAGC C CACGAGUC	11108	GACUCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUCG	29483
6334	4696	GAGCAGCC C ACAGUCA	11109	UGACUCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCUC	29484
6335	4695	AGCAGCCC A CGAGUCAU	11110	AUGACUCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUGCU	29485
6342	4688	CACGAGUC A UGAUCCUG	11111	CAGGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IACUCGUG	29486
6348	4682	UCAUGAUC C UGUAGACG	11112	CGUCUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUGA	29487
6349	4681	CAUGAUCC U GUAGACGC	11113	CGCUCUAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAUG	29488
6358	4672	GUAGACGC C GGUGGUCG	11114	CGACCACC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUAC	29489
6371	4659	GUCGUGUC C CCCUUUUU	11115	AAAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACACGAC	29490
6372	4658	UCGUGUCC C CCUUUUUG	11116	CAAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACACGA	29491
6373	4657	CGUGUCCC C CUUUUGU	11117	ACAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGACACG	29492
6374	4656	GUGUCCCC C UUUUUGUA	11118	UACAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGACAC	29493
6375	4655	UGUCCCCC U UUUUGUAC	11119	GUACAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGACA	29494
6384	4646	UUUUGUAC U CCUUUGGU	11120	ACCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUACAAAA	29495
6386	4644	UUGUACUC C UUUGGUGA	11121	UACCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUACAA	29496
6387	4643	UGUACUCC U UUGGUGAG	11122	CUCACCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUACA	29497
6404	4626	GGAGUGUC C CACAACAC	11123	GUGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA IACACUCC	29498
6405	4625	GAGUGUCC C ACAACACG	11124	CGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IGACACUC	29499
6406	4624	AGUGUCCC A CAACACGC	11125	GCGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGACACU	29500
6408	4622	UGUCCAC A ACACCCU	11126	AGGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGGACA	29501
6411	4619	CCCACAAC A CGCCUCCU	11127	AGGAGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGG	29502
6415	4615	CAACACGC C UCCUCUCU	11128	AGAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGUG	29503
6416	4614	AACACGCC U CCUCUCU	11129	AAGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUGU	29504
6418	4612	CACGCCUC C UCUCUUG	11130	CAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGUG	29505
6419	4611	ACGCCUCC U UCUCUUGU	11131	ACAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGGCGU	29506
6421	4609	GCCUCCUC U CUUUGUGU	11132	ACACAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGC	29507
6423	4607	CUCUCUC U UUGUGUAU	11133	AUACACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAG	29508
6444	4586	GAGUUAUC C AAAAUCCA	11134	UGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUAAUCU	29509
6445	4585	AGUUAUCC A AAAUCCAA	11135	UUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAACU	29510
6451	4579	CCAAAUC C AACUACUG	11136	CAGUAGUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUGG	29511
6452	4578	CAAAAUCC A ACUACUGA	11137	UCAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUG	29512
6455	4575	AAUCCAAC U ACUGAGG	11138	CCUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUU	29513
6458	4572	CCAACUAC U GAGGGCAA	11139	UUGCCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUGG	29514
6465	4565	CUGAGGGC A AGAUUGCC	11140	GGCAAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAG	29515
6473	4557	AAGAUUGC C CAGGGGGU	11141	ACCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCU	29516
6474	4556	AGAUUGCC C AGGGGGUG	11142	CACCCCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUCU	29517
6475	4555	GAUUGCCC A GGGGGUGU	11143	ACACCCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAUC	29518
6488	4542	GUGUACGC A CUAUCCG	11144	CGGAUUAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUACAC	29519
6490	4540	GUACGCAC U AAUCGCGA	11145	UCGCGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGUAC	29520
6502	4528	CGCGAGAC A GACCAUUC	11146	GAAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUCGCG	29521
6506	4524	AGACAGAC C AUUCUGAG	11147	CUCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUCU	29522
6507	4523	GACAGACC A UUCUGAGC	11148	GCUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGUC	29523
6511	4519	GACCAUUC U GAGCAUCC	11149	GGAUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGUC	29524
6516	4514	UUCUGAGC A UCCAUAUC	11150	GAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGAA	29525
6519	4511	UGAGCAUC C AUUCUUC	11151	GAAGAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUCA	29526
6520	4510	GAGCAUCC A UAUCUUC	11152	GGAAGUA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCUC	29527
6525	4505	UCCAUAUC U UCCAAGGU	11153	ACCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IADAUGGA	29528

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6528	4502	AUAUCUUC C AAGGUGCU	11154	AGCACCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAUAU	29529
6529	4501	UAUCUUC C A AGGUGCUC	11155	GAGCACCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAUU	29530
6536	4494	CAAGGUGC U CCUGGAUC	11156	GAUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICACCUUG	29531
6538	4492	AGGUGCUC C UGGAUCAU	11157	AUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCACCU	29532
6539	4491	GGUGCUCC U GGAUCAU	11158	AAUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCACC	29533
6545	4485	CCUGGAUC A UUCAUGAG	11159	CUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCCAGG	29534
6549	4481	GAUCAUUC A UGAGCUGG	11160	CCAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGAUC	29535
6555	4475	UCAUGAGC U GGAAGUUU	11161	AAACUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUGA	29536
6565	4465	GAAGUUUC C AUCAUCAU	11162	AUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAACUUC	29537
6566	4464	AAGUUUCC A UCAUCAUC	11163	GAUGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAACUUC	29538
6569	4461	UUUCCAUC A UCAUCAAG	11164	CUUGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAAA	29539
6572	4458	CCAUCAUC A UCAAGCCG	11165	CGGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUGG	29540
6575	4455	UCAUCAUC A AGCCGCAC	11166	GUGCGGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUGA	29541
6579	4451	CAUCAAGC C GCACAUCA	11167	UGAUGUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGAUG	29542
6582	4448	CAAGCCGC A CAUCAACU	11168	AGUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCUUG	29543
6584	4446	AGCCGCAC A UCAACUCU	11169	AGAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCGGCU	29544
6587	4443	CGCACAU C ACUCUUC	11170	GAAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGCG	29545
6590	4440	ACAUCAAC U CUUUCGCU	11171	AGCGAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAUGU	29546
6592	4438	AUCAACUC U UUCGCUCC	11172	CGAGCGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUUGAU	29547
6598	4432	UCUUUCGC U CGAGCCUG	11173	CAGGCUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICGAAAGA	29548
6604	4426	GCUCGAGC C UGUAAUUU	11174	AAAUUACA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCGAGC	29549
6605	4425	CUUGAGCC U GUAAUUUC	11175	GAAAUUAC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCGAG	29550
6614	4416	GUAAUUUC U GCAUCACU	11176	AGUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUUAC	29551
6617	4413	AUUUCUGC A UCACUUUC	11177	GAAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAAU	29552
6620	4410	UCUGCAUC A CUUCCCA	11178	UGGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCAGA	29553
6622	4408	UGCAUCAC U UUCCAGG	11179	CCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGCA	29554
6626	4404	UCACUUUC C CAGGAAAU	11180	AUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGUGA	29555
6627	4403	CACUUUCC C AGGAAAU	11181	CAUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAUGU	29556
6628	4402	ACUUUCCC A GGAAAUU	11182	ACAUUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAAGU	29557
6638	4392	GAAAUUGC C GCCGUUCU	11183	AGAACGGC CUGAUGAG	GCCGUUAGGC	CGAA	IACAUUUC	29558
6641	4389	AUGUCCGC C GUUCUCUC	11184	GAGAGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGACAU	29559
6646	4384	CGCCGUUC U CUCAAUCC	11185	GGAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAACGGCG	29560
6648	4382	CCGUUCUC U CAUCCAC	11186	GUGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGAACGG	29561
6650	4380	GUUCUCUC A AUCCACAU	11187	AUGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGAAC	29562
6654	4376	UCUCAUC C ACAUAUCU	11188	AGAUAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGAGA	29563
6655	4375	CUCAAUCC A CAUAUCUG	11189	CACAUAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUUGAG	29564
6657	4373	CAAUCCAC A UAUCUGUU	11190	ACAGAUUA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAUUG	29565
6662	4368	CACAUAUC U GUUGAUUU	11191	AAAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUAUGUG	29566
6672	4358	UUGAUUUC C CAGAAUUC	11192	GAUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUCAA	29567
6673	4357	UGAUUUC C AGAAAUCA	11193	UGAUUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAUCA	29568
6674	4356	GAUUUCCC A GAAAUAC	11194	GUGAUUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAUUC	29569
6681	4349	CAGAAUUC A CGAAAGCA	11195	UGC UUUC CUGAUGAG	GCCGUUAGGC	CGAA	IAUUUCUG	29570
6689	4341	ACGAAAGC A GCAAAAU	11196	AUGUUUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUCUG	29571
6692	4338	AAAGCAGC A AACAUAG	11197	CUGAUGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUUU	29572
6696	4334	CAGCAAAC A UGAGCCCC	11198	GGGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGCUG	29573
6702	4328	ACAUGAGC C CCGCAUA	11199	UAUCGCGG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUGU	29574
6703	4327	CAUGAGCC C CGCAUAG	11200	CUAUCGCG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCAUG	29575
6704	4326	AUGAGCCC C GCGAUAGU	11201	ACUAUCGC CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUCAU	29576
6714	4316	CGAUAGUC A UUGGAAUG	11202	CAUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IACUAUCG	29577
6725	4305	GGAUUGGC C AUGGAGUC	11203	GACUCCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUUCU	29578
6726	4304	GAAUGGCC A UGGAGUCA	11204	UGACUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAUUC	29579
6734	4296	AUGGAGUC A AUGUCAAG	11205	CUUGACAU CUGAUGAG	GCCGUUAGGC	CGAA	IACUCCAU	29580
6740	4290	UCAUAGUC A AGCUCUGC	11206	GCAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	IACAUUGA	29581
6744	4286	UGUCAAGC U CUGCCAGC	11207	GCUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGACA	29582
6746	4284	UCAAGCUC U GCCAGCCC	11208	GGGCUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUUGA	29583
6749	4281	AGCUCUGC C AGCCUCC	11209	GGAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGCU	29584
6750	4280	GCUCUGCC A GCCUCCG	11210	CGAGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGAGC	29585
6753	4277	CUGCCAGC C CUCCGACG	11211	CGUCGGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGCAG	29586
6754	4276	UGCCAGCC C UCCGACGA	11212	UCGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGGCA	29587
6755	4275	GCCAGCCC U CCGACGAU	11213	AUCGUCGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUGGC	29588
6757	4273	CAGCCUC C GACGAUGG	11214	CCAUCGUC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCUG	29589

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6767	4263	ACGAUGGC A AACAUUAG	11215	CUAAUGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCGU	29590
6771	4259	UGGCAAA C UUAGGCCG	11216	CGGCCUAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUGCCA	29591
6778	4252	CAUUAGGC C GACAGCUG	11217	CAGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUAAUG	29592
6782	4248	AGGCCGAC A GCUGUCAU	11218	AUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCCU	29593
6785	4245	CCGACAGC U GUCAUCAC	11219	GUGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGG	29594
6789	4241	CAGCUGUC A UCACUUCA	11220	UGAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACAGCUG	29595
6792	4238	CUGUCAUC A CUUCAGUU	11221	AACUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUACAG	29596
6794	4236	GUCAUCAC U UCAGUUGC	11222	GCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAC	29597
6797	4233	AUCACUUC A GUUGCGGG	11223	CCCAGAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAU	29598
6807	4223	UUGCGGGC C AUCCGCGU	11224	ACGCGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCCGCAA	29599
6808	4222	UGCGGGCC A UCCGCGUU	11225	AACGCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCGCA	29600
6811	4219	GGGCCAUC C GCGUUUAC	11226	GUAACGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCCC	29601
6830	4200	UUGGGAUC A CAUGCAAU	11227	AUUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCAA	29602
6832	4198	GGGAUCAC A UGCAAUCA	11228	UGAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCC	29603
6836	4194	UCACAUGC A AUCAGUCC	11229	GGACUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUGA	29604
6840	4190	AUGCAAUC A GUCCAGCA	11230	UGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCAU	29605
6844	4186	AAUCAGUC C AGCAGCAA	11231	UUGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IACUGAUU	29606
6845	4185	AUCAGUCC A GCAGCAAG	11232	CUUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGACUGAU	29607
6848	4182	AGUCCAGC A GCAAGGAU	11233	AUCCUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGACU	29608
6851	4179	CCAGCAGC A AGGAUCAU	11234	AUGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUGG	29609
6858	4172	CAAGGAUC A UGGGGUUG	11235	CAACCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUUG	29610
6874	4156	GAAAAGUC C UGUUGAGG	11236	CCUCAACA CUGAUGAG	GCCGUUAGGC	CGAA IACUUUUC	29611
6875	4155	AAAAGUCC U GUUGAGGC	11237	GCCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA IGACUUUU	29612
6884	4146	GUUGAGGC U AGAGCCAA	11238	UUGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAAC	29613
6890	4140	GCUAGAGC C AAGCAUAG	11239	CUAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUAGC	29614
6891	4139	CUAGAGCC A AGCAUAGC	11240	GCUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUAG	29615
6895	4135	AGCCAAGC A UAGCAGAC	11241	GUCUGCUA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGCU	29616
6900	4130	AGCAUAGC A GACUUGCU	11242	AGCAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUAUGCU	29617
6904	4126	UAGCAGAC U UGCUCUUC	11243	AAGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCUA	29618
6908	4122	AGACUUGC U CCUUCUUC	11244	AAGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUCU	29619
6910	4120	ACUUGCUC C UUUUUUUU	11245	AAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAGU	29620
6911	4119	CUUGCUCU U UUCUUUUU	11246	AAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAG	29621
6915	4115	CUCCUUUC U UUUUUGCA	11247	UGCAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAG	29622
6923	4107	UUUUUUGC A GCUGCACU	11248	AGUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAAA	29623
6926	4104	UUUGCAGC U GCACUCCU	11249	AGGAGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAAA	29624
6929	4101	GCAGCUGC A UCCUCUUC	11250	AAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUGC	29625
6931	4099	AGCUGCAC U CCUCUUCU	11251	AGAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGCU	29626
6933	4097	CUGCACUC C UCUCUCC	11252	GGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCAG	29627
6934	4096	UGCACUCC U CUUCUCCC	11253	GGGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGCA	29628
6936	4094	CACUCCUC U UCUCUCCG	11254	CAGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGUG	29629
6939	4091	UCCUCUUC U CCCUGAUC	11255	GAUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGGA	29630
6941	4089	CUCUUCUC C CUGAUCAA	11256	UUGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAG	29631
6942	4088	UCUUCUCC C UGAUCAAG	11257	CUUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGA	29632
6943	4087	CUUCUCCC U GAUCAAGC	11258	GCUUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAG	29633
6948	4082	CCUGAUC A AGCUGCCU	11259	AGGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGG	29634
6952	4078	GAUCAAGC U GCCUAUUC	11260	GAAUAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAUC	29635
6955	4075	CAAGCUGC C UAUUCCGA	11261	UCGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUUG	29636
6956	4074	AAGCUGCC U AUUCCGAC	11262	GUCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCUU	29637
6961	4069	GCCUAUUC C GACCAUCA	11263	UGAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGGC	29638
6965	4065	AUCCGAC C AUCAACAG	11264	CUGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAU	29639
6966	4064	UUCCGACC A UCAACAGC	11265	GCUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGA	29640
6969	4061	CGACCAUC A ACAGCAGU	11266	ACUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGUG	29641
6972	4058	CCAUCAAC A GCAGUAUC	11267	GAUACUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGG	29642
6975	4055	UCAACAGC A GUAUCCUG	11268	CAGGAUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGA	29643
6981	4049	GCAGUAUC C UGUACACA	11269	UGUGUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUACUGC	29644
6982	4048	CAGUAUCC U GUACACAU	11270	AUGUGUAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUACUG	29645
6987	4043	UCCUGUAC A CAUCCAGA	11271	UCUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUACAGGA	29646
6989	4041	CUGUACAC A UCCAGAUU	11272	AAUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUACAG	29647
6992	4038	UACACAUC C AGAUUCA	11273	UUGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGA	29648
6993	4037	ACACAUC C GAUUCAG	11274	CUUGAAUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGU	29649
6999	4031	CCAGAUUC A AGCAUCUC	11275	GAGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUGG	29650

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7003	4027	AUUCAAGC A UCUCAGCC	11276	GGCUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGAAU	29651
7006	4024	CAAGCAUC U CAGCCCGG	11277	CCGGGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGCUUG	29652
7008	4022	AGCAUCUC A GCCCGGGU	11278	ACCCGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUGCU	29653
7011	4019	AUCUCAGC C CGGGUGUU	11279	AACACCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGAGAU	29654
7012	4018	UCUCAGCC C GGGUGUUA	11280	UAAACACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGAGA	29655
7023	4007	GUGUAGC A GGGCUAGC	11281	GCUAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAACAC	29656
7028	4002	AGCAGGGC U AGCAGCGG	11282	CCGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCUGCU	29657
7032	3998	GGGCUAGC A GCGGAACA	11283	UGUCCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAGCCC	29658
7040	3990	AGCGGAAC A ACCACGUU	11284	AACGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGCCU	29659
7043	3987	GGAAACAAC C ACGUUUGA	11285	UCAAACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGUUCC	29660
7044	3986	GAACAACC A CGUUUGAU	11286	AUCAAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUGUUC	29661
7073	3957	GUUAGGC U CUCAGUUA	11287	UAUCUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAUAAC	29662
7075	3955	UAUGGCUC U CAGUAUCA	11288	UGAUACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCCAUA	29663
7077	3953	UGGCUCUC A GUAUCAUC	11289	GAUGAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGCCA	29664
7083	3947	UCAGUAUC A UCCAAGCU	11290	AGCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACUGA	29665
7086	3944	GUAUCAUC C AAGCUACC	11291	GGUAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAUAC	29666
7087	3943	UAUCAUCC A AGCUACCG	11292	CGGUAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUGAUA	29667
7091	3939	AUCCAAGC U ACCGCCAG	11293	CUGGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGGAU	29668
7094	3936	CAAGCUAC C GCCAGUGA	11294	UAUCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGCUUG	29669
7097	3933	CUUACCGC C AGUGAAUU	11295	AAUUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGUAGC	29670
7098	3932	GUACCGCC A GUGAAUUC	11296	GAAUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGGUAG	29671
7107	3923	GUGAAUUC A ACACAUCA	11297	UGAUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUUCAC	29672
7110	3920	AAUUCAAC A CAUCAGGG	11298	CCUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAAUU	29673
7112	3918	UUCAACAC A UCAGGGAU	11299	AUCCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUGAA	29674
7115	3915	AACAUAUC A GGGAUUCU	11300	GAGAUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUGUU	29675
7122	3908	CAGGAUUC U CCCAGAGC	11301	GCUCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCCUG	29676
7124	3906	GGGAUUC C CAGAGCAG	11302	UCGUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUCCC	29677
7125	3905	GGAUUCC C AGAGCAGA	11303	CUCGUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUAUCC	29678
7126	3904	GAUUCUCC A GAGCAGAA	11304	UUCGUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAGAU	29679
7131	3899	CCCAGAGC A GAAUUGG	11305	CCAAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCUGGG	29680
7145	3885	UGGCGGGC A UCGUGAUA	11306	UAUCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCGCCA	29681
7157	3873	UGAUAAGC C AUUUGAAA	11307	UUUCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUAUCA	29682
7158	3872	GAUAAGCC A UUUGAAA	11308	CUUUCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUUAUC	29683
7172	3858	AAGAAAAC A GCCGCCAA	11309	UUGGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUUCUU	29684
7175	3855	AAAACAGC C GCCAACAU	11310	AUGUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUUUU	29685
7178	3852	ACAGCCGC C AACAUCAA	11311	UUUGAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGUGUU	29686
7179	3851	CAGCCGCC A ACAUCAAC	11312	GUUGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGGUG	29687
7182	3848	CCGCCAAC A UCAACAAA	11313	UUUGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGGCCG	29688
7185	3845	CCAACAUC A ACAAUUG	11314	CAUUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUUGG	29689
7188	3842	ACAUCAAC A AAUUGUUC	11315	GAACAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAUGU	29690
7197	3833	AAUUGUUC U CCUGGUUG	11316	CAACCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACAUUU	29691
7199	3831	AUGUUCUC C UGGUUGGU	11317	ACCAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAACAU	29692
7200	3830	UGUUCUCC U GGUUGGUC	11318	GACCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGAACA	29693
7209	3821	GGUUGGUC C AUCUCGCU	11319	AGCGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCAACC	29694
7210	3820	GUUGGUCC A UCUCGCUU	11320	AAGCGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACCAAC	29695
7213	3817	GGUCCAUC U CGCUUGA	11321	UCAAAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGACC	29696
7217	3813	CAUCUCGC U UUGAGAAA	11322	UUUCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGAGAUG	29697
7232	3798	AACGAUGC C ACCAUAAA	11323	UUUAUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUCGUU	29698
7233	3797	ACGAUGCC A CCAUAAAC	11324	GUUAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAUCGU	29699
7235	3795	GAUGCCAC C AUAAACAC	11325	GUGUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGCAUC	29700
7236	3794	AUGCCACC A UAAACACU	11326	AGUUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGGCAU	29701
7242	3788	CCAUAAC A CUGGUUGU	11327	ACAACGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUAUGG	29702
7244	3786	AUAAACAC U GGUUGUAU	11328	AUACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUUAU	29703
7254	3776	GUUGUAUC U UGAAGGUC	11329	GACCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACAAC	29704
7265	3765	AAGGUCGC C AUGAGCGC	11330	GCGUCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGACCUU	29705
7266	3764	AGGUCGCC A UGAGCGCC	11331	GGCGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGACCU	29706
7274	3756	AUGAGCGC C AAGUGUAC	11332	GUACACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGCUCAU	29707
7275	3755	UGAGCGCC A AGUGUACC	11333	GGUACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGCUCA	29708
7283	3747	AAGUGUAC C ACGUCUCC	11334	GGAGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUACACUU	29709
7284	3746	AGUGUACC A CGUCUCCU	11335	AGGAGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUACACU	29710
7289	3741	ACCACGUC U CCUCCCGA	11336	UCGGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGUGGU	29711

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7291	3739	CACGUCUC C UCCCGAAU	11337	AUUCGGGA CUGAUGAG GCGUUAGGC	CGAA IAGACGUG	29712
7292	3738	ACGUCUCC U CCGGAUUU	11338	AAUUCGGG CUGAUGAG GCGUUAGGC	CGAA IGAGACGU	29713
7294	3736	GUCUCCUC C CGAAUUAG	11339	CUAAUUCG CUGAUGAG GCGUUAGGC	CGAA IAGGAGAC	29714
7295	3735	UCUCCUCC C GAAUUAGA	11340	UCUAAUUC CUGAUGAG GCGUUAGGC	CGAA IGAGGAGA	29715
7307	3723	UUAGAUTC U GCGAAAGC	11341	GCUUUCGC CUGAUGAG GCGUUAGGC	CGAA IAAUCUAA	29716
7316	3714	GCGAAAGC U GCCCCAC	11342	GUGGGGGC CUGAUGAG GCGUUAGGC	CGAA ICUUUCGC	29717
7319	3711	AAAGCUGC C CCCACCAA	11343	UUGGUGGG CUGAUGAG GCGUUAGGC	CGAA ICAGCUUU	29718
7320	3710	AAGCUGCC C CCACCAAG	11344	CUUGGUGG CUGAUGAG GCGUUAGGC	CGAA IGCAGCUU	29719
7321	3709	AGCUGCCC C CACCAAGA	11345	UCUUGGUG CUGAUGAG GCGUUAGGC	CGAA IGGCAGCU	29720
7322	3708	GCUGCCCC C ACCAAGAU	11346	AUCUUGGU CUGAUGAG GCGUUAGGC	CGAA IGGGCAGC	29721
7323	3707	CUGCCCCC A CCAAGAUG	11347	CAUCUUGG CUGAUGAG GCGUUAGGC	CGAA IGGGCGAG	29722
7325	3705	GCCCCCAC C AAGAUGAC	11348	GUCAUCUU CUGAUGAG GCGUUAGGC	CGAA IUUGGGGG	29723
7326	3704	CCCCCACC A AGAUGACA	11349	UGUCAUCU CUGAUGAG GCGUUAGGC	CGAA IGUGGGGG	29724
7334	3696	AAGAUGAC A UAGCGUAA	11350	UUACGCUA CUGAUGAG GCGUUAGGC	CGAA IUCAUCUU	29725
7344	3686	AGCGUAAC A CAUCAGUG	11351	CACUGAUG CUGAUGAG GCGUUAGGC	CGAA IUUACGCU	29726
7346	3684	CGUAACAC A UCAGUGUA	11352	UACACUGA CUGAUGAG GCGUUAGGC	CGAA IUGUACG	29727
7349	3681	AACACAUC A GUGUAAGU	11353	ACUUACAC CUGAUGAG GCGUUAGGC	CGAA IAUUGUUU	29728
7363	3667	AGUAAUGC C CCCAAACA	11354	UGUUUGGG CUGAUGAG GCGUUAGGC	CGAA ICAUUACU	29729
7364	3666	GUAUUGCC C CCAAACAC	11355	GUGUUUGG CUGAUGAG GCGUUAGGC	CGAA IGCAUUAU	29730
7365	3665	UAAUGCCC C CAAACACC	11356	GGUGUUUG CUGAUGAG GCGUUAGGC	CGAA IGGCAUUA	29731
7366	3664	AAUGCCCC C AAACACCA	11357	UGGUGUUU CUGAUGAG GCGUUAGGC	CGAA IGGGCAUU	29732
7367	3663	AUGCCCCC A AACACCAG	11358	CUGUGUUU CUGAUGAG GCGUUAGGC	CGAA IUGGGCAU	29733
7371	3659	CCCCAAAC A CCAGGACU	11359	AGUCCUGG CUGAUGAG GCGUUAGGC	CGAA IUUUGGGG	29734
7373	3657	CCAAACAC C AGGACUAG	11360	CUAGUCCU CUGAUGAG GCGUUAGGC	CGAA IUGUUUGG	29735
7374	3656	CAAACACC A GGACUAGC	11361	GCUAGUCC CUGAUGAG GCGUUAGGC	CGAA IGUGUUUG	29736
7379	3651	ACCAGGAC U AGCAGAGC	11362	GCUCUGCU CUGAUGAG GCGUUAGGC	CGAA IUCCUGGU	29737
7383	3647	GGACUAGC A GAGCAAUC	11363	GAUUGCUC CUGAUGAG GCGUUAGGC	CGAA ICUAGUCC	29738
7388	3642	AGCAGAGC A AUCAGUAU	11364	AUACUGAU CUGAUGAG GCGUUAGGC	CGAA ICUCUGCU	29739
7392	3638	GAGCAAUC A GUUAAGCU	11365	AGCUAUAC CUGAUGAG GCGUUAGGC	CGAA IAUUGCUC	29740
7400	3630	AGUAUAGC U GGCAUGCU	11366	AGCAUGCC CUGAUGAG GCGUUAGGC	CGAA IUAUAUCU	29741
7404	3626	UAGCUGGC A UGCUGAUC	11367	GUAUCAGC CUGAUGAG GCGUUAGGC	CGAA ICCAGCUA	29742
7408	3622	UGGCAUGC U GAUCUUGG	11368	CCAAGAUC CUGAUGAG GCGUUAGGC	CGAA ICAUGCCA	29743
7413	3617	UGCUGAUC U UGGCUGUC	11369	GACAGCCA CUGAUGAG GCGUUAGGC	CGAA IAUACAGC	29744
7418	3612	AUCUUGGC U GUCCACCU	11370	AGGUGGAC CUGAUGAG GCGUUAGGC	CGAA ICCAAGAU	29745
7422	3608	UGGCUGUC C ACCUCUUG	11371	CAAGAGGU CUGAUGAG GCGUUAGGC	CGAA IACAGCCA	29746
7423	3607	GGCUGUCC A CCUCUUGC	11372	GCAAGAGG CUGAUGAG GCGUUAGGC	CGAA IGACAGCC	29747
7425	3605	CUGUCCAC C UCUCGCGA	11373	UCGCAAGA CUGAUGAG GCGUUAGGC	CGAA IUGGACAG	29748
7426	3604	UGUCCACC U CUUGCGAA	11374	UUCGCAAG CUGAUGAG GCGUUAGGC	CGAA IGUGGACA	29749
7428	3602	UCCACCUC U UGCGAAGG	11375	CCUUCGCA CUGAUGAG GCGUUAGGC	CGAA IAGGUGGA	29750
7439	3591	CGAAGGAC C UCCUGGGU	11376	ACCCAGGA CUGAUGAG GCGUUAGGC	CGAA IUCCUUCG	29751
7440	3590	GAAGGACC U CCUGGGUG	11377	CACCCAGG CUGAUGAG GCGUUAGGC	CGAA IGUCCUUC	29752
7442	3588	AGGACCUC C UGGUGGGC	11378	GCCACCCA CUGAUGAG GCGUUAGGC	CGAA IAGGUCCU	29753
7443	3587	GGACCUCC U GGGUGGCC	11379	GGCCACCC CUGAUGAG GCGUUAGGC	CGAA IGAGGUCC	29754
7451	3579	UGGUGGGC C AAGAACAC	11380	GUGUUCUU CUGAUGAG GCGUUAGGC	CGAA ICCACCCA	29755
7452	3578	GGGUGGCC A AGAACACG	11381	CGUGUUCU CUGAUGAG GCGUUAGGC	CGAA IGCCACCC	29756
7458	3572	CCAAGAAC A CGACCAGA	11382	UCUGUUCG CUGAUGAG GCGUUAGGC	CGAA IUUCUUGG	29757
7463	3567	AACACGAC C AGAAGGCC	11383	GGCCUUCU CUGAUGAG GCGUUAGGC	CGAA IUCUGUUU	29758
7464	3566	ACACGACC A GAAGGCC	11384	GGGCCUUC CUGAUGAG GCGUUAGGC	CGAA IGUCGUGU	29759
7471	3559	CAGAAGGC C CAACUGAA	11385	UUCAGUUG CUGAUGAG GCGUUAGGC	CGAA ICCUUCUG	29760
7472	3558	AGAAGGCC C AACUGAAA	11386	UUUCAGUU CUGAUGAG GCGUUAGGC	CGAA IGCCUUCU	29761
7473	3557	GAAGGCCC A ACUGAAAA	11387	UUUUCAGU CUGAUGAG GCGUUAGGC	CGAA IGGCCUUC	29762
7476	3554	GGCCCAAC U GAAAAGGG	11388	CCCUUUCU CUGAUGAG GCGUUAGGC	CGAA IUUGGGCC	29763
7487	3543	AAAGGGUC A AUCAUAUC	11389	GAUAUGAU CUGAUGAG GCGUUAGGC	CGAA IACCCUUU	29764
7491	3539	GGUCAUUC A UAUCAGCA	11390	UGCUGAUA CUGAUGAG GCGUUAGGC	CGAA IAUUGACC	29765
7496	3534	AUCAUAUC A GCAUUAUA	11391	UAUAUUGC CUGAUGAG GCGUUAGGC	CGAA IAUUAUGU	29766
7499	3531	AUAUCAGC A UUAUAAGC	11392	GCUAUAUA CUGAUGAG GCGUUAGGC	CGAA ICUGUAUU	29767
7508	3522	UUAUAAGC A UUCACUUG	11393	CAAGUGAA CUGAUGAG GCGUUAGGC	CGAA ICUUAUUA	29768
7512	3518	AAGCAUUC A CUUGUGAC	11394	GUACAAAG CUGAUGAG GCGUUAGGC	CGAA IAAUGCUU	29769
7514	3516	GCAUUCAC U UGUGACUG	11395	CAGUCACA CUGAUGAG GCGUUAGGC	CGAA IUGAAUGC	29770
7521	3509	CUUGUGAC U GCACGAGG	11396	CCUCGUGC CUGAUGAG GCGUUAGGC	CGAA IUCACAAG	29771
7524	3506	GUGACUGC A CGAGGGUC	11397	GACCCUCG CUGAUGAG GCGUUAGGC	CGAA ICAGUCAC	29772

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7533	3497	CGAGGGUC U UUUCAUCA	11398	UGAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IACCCUCG	29773
7538	3492	GUCUUUUC A UCAUGUCU	11399	AGACAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAGAC	29774
7541	3489	UUUUCAUC A UGUCUCUG	11400	CAGAGACA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAAAA	29775
7546	3484	AUCAUGUC U CUGUGGUC	11401	GACCACAG CUGAUGAG	GCCGUUAGGC	CGAA	IACAUGAU	29776
7548	3482	CAUGUCUC U GUGGUCUG	11402	CAGACCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGACAUG	29777
7555	3475	CUGUGGUC U GAUUCUCA	11403	UGGAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	IACCACAG	29778
7560	3470	GUCUGAUC U CCAUACCA	11404	UGGUAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAGAC	29779
7562	3468	CUGAUCUC C AUACCAUA	11405	UAUGGUUAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUCAG	29780
7563	3467	UGAUCUCC A UACCAUAC	11406	GU AUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAUCA	29781
7567	3463	CUCCAUAU C AUACCAAC	11407	GUUGGUUAU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGGAG	29782
7568	3462	UCCAUAUC A UACCAACA	11408	UGUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	IGUAUGGA	29783
7572	3458	UACCAUAC C AACAGCCG	11409	CGGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGGUA	29784
7573	3457	ACCAUAUC A ACAGCCGC	11410	GCGGCUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGUAUGGU	29785
7576	3454	AUACCAAC A GCCGCUGU	11411	ACAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUUAU	29786
7579	3451	CCAACAGC C GCUGUCAG	11412	CUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUUGG	29787
7582	3448	ACAGCCGC U GUCAGUUU	11413	AAACUGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCUGU	29788
7586	3444	CCGCUGUC A GUUUGGUA	11414	UACCAAAC CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGG	29789
7599	3431	GGUAGCGC A GUGGUGGU	11415	ACCACCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGCUACC	29790
7615	3415	UAAGGUGC A GCUCUCGC	11416	GCAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICACCUUA	29791
7618	3412	GGUGCAGC U CCUGCAGC	11417	GCUGCAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCACC	29792
7620	3410	UGCAGCUC C UGCAGCAC	11418	GUGUCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGCA	29793
7621	3409	GCAGCUCC U GCAGCAC	11419	GGUCGUCG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCUGC	29794
7624	3406	GCUCUCGC A GCACCAAU	11420	AUUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGAGC	29795
7627	3403	CCUGCAGC A CCAAUUCG	11421	CAGAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCAGG	29796
7629	3401	UGCAGCAC C AAUCUGUU	11422	AACAGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGCA	29797
7630	3400	GCAGCACC A AUCUGUUA	11423	UACAGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCUGC	29798
7634	3396	CACCAAUC U GUUAUCAA	11424	UUGAUAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGUG	29799
7641	3389	CUGUUAUC A ACUUCCG	11425	CGGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUAACAG	29800
7644	3386	UUUAUCAA U UUCCGCUC	11426	GAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAUAA	29801
7648	3382	CAACUUUC C GCUCUCUG	11427	CAGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGUUG	29802
7651	3379	CUUUCGCG U CUCUGUGG	11428	CCACAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICGAAAG	29803
7653	3377	UUCCGCUC U CUGUGGUG	11429	CACCACAG CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGAA	29804
7655	3375	CCGCUCUC U GUGGUGGU	11430	ACCACCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGCGG	29805
7673	3357	CGAGUGGC A GGUCCACG	11431	CGUGGACC CUGAUGAG	GCCGUUAGGC	CGAA	ICACUCUG	29806
7678	3352	GGCAGGUC C ACGGUGUC	11432	GACACCGU CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGCC	29807
7679	3351	GCAGUUC A CGGUGUCC	11433	GGACACCG CUGAUGAG	GCCGUUAGGC	CGAA	IGACUGCC	29808
7687	3343	ACGGUGUC C GCAGCUCU	11434	AGAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IACACCGU	29809
7690	3340	GUGUCCGC A GCUCUCAC	11435	GUGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGACAC	29810
7693	3337	UCCGAGC U CUCACUCA	11436	UGAGUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCGGA	29811
7695	3335	CGCAGCUC U CACUCAGG	11437	CCUGAGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGCG	29812
7697	3333	CAGCUCUC A CUCAGGCU	11438	ACCUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGCUG	29813
7699	3331	GCUCUCAC U CAGGGUGA	11439	UCACCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGAGC	29814
7701	3329	UCUCACUC A GGGUGACC	11440	GGUCACCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAGA	29815
7709	3321	AGGGUGAC C GUAGUCC	11441	GGAACUAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCCU	29816
7717	3313	CGUAGUUC C UGGGCAGU	11442	ACUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACUACG	29817
7718	3312	GUAGUUC U GGGCAGUA	11443	UACUGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUAC	29818
7723	3307	UCCUGGGC A GUAAUCGA	11444	UCGAUUAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGGA	29819
7736	3294	UCGAAGUC A AUCUCUAC	11445	GUAGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACUUCGA	29820
7740	3290	AGUCAAUU C CUACCCGG	11446	CCGGGUAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGACU	29821
7742	3288	UCAAUUC U ACCCGGCC	11447	GGCCGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUUGA	29822
7745	3285	AUCUCUAC C CGGCCUUC	11448	GAAGGCCG CUGAUGAG	GCCGUUAGGC	CGAA	IUAGAGAU	29823
7746	3284	UCUCUACC C GGCCUUCG	11449	CGAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGUAGAGA	29824
7750	3280	UACCCGGC C UUCGUCCC	11450	GGGACGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGGUA	29825
7751	3279	ACCCGGCC U UCGUCCCA	11451	UGGGACGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGGGU	29826
7757	3273	CCUUCGUC C CAUGGGCC	11452	GGCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IACGAAGG	29827
7758	3272	CUUCGUCC C AUGGGCCC	11453	GGGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA	IACGAAG	29828
7759	3271	UUCGUCCC A UGGGCCCU	11454	AGGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGACGAA	29829
7765	3265	CCAUGGGC C CUGGUUUU	11455	AAAACCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAUGG	29830
7766	3264	CAUGGGCC C UGGUUUUG	11456	CAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCCAUG	29831
7767	3263	AUGGGCCC U GGUUUUGU	11457	ACAAAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCCAU	29832
7779	3251	UUUGUGUC U UGUACCCA	11458	UGGUUACA CUGAUGAG	GCCGUUAGGC	CGAA	IACACAAA	29833

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7785	3245	UCUUGUAC C	CAGGUCUC	11459	GAGACCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUACAAGA	29834
7786	3244	CUUGUACC C	AGGUCUCC	11460	GGAGACCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUACAAG	29835
7787	3243	UUGUACCC A	GGUCUCCG	11461	CGGAGACC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUACAA	29836
7792	3238	CCCAGGUC U	CCGAUUGU	11462	ACAAUCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGGG	29837
7794	3236	CAGGUCUC C	GAUUGUGA	11463	UCACAAUC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGACCUG	29838
7807	3223	GUGAUUGC U	UCGUGGUC	11464	GACCACGA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUCAC	29839
7816	3214	UCGUGGUC C	CGCCAGUG	11465	CACUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IACCACGA	29840
7817	3213	CGUGGUCC C	GCCAGUGU	11466	ACACUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGACCACG	29841
7820	3210	GGUCCCGC C	AGUGUGAC	11467	GUCACACU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGACC	29842
7821	3209	GUCCCGCC A	GUGUGACU	11468	AGUCACAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGGAC	29843
7829	3201	AGUGUGAC U	GGUAUUAU	11469	AUAAUACC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCACACU	29844
7839	3191	GUUUUAUC A	AGUCACUC	11470	GAGUGACU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUAAUAC	29845
7844	3186	AUCAAGUC A	CUCUCAAG	11471	CUUGAGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGAU	29846
7846	3184	CAAGUCAC U	CUCAAGGA	11472	UCCUUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IAGACUUG	29847
7848	3182	AGUCACUC U	CAAGGAU	11473	AAUCCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGACU	29848
7850	3180	UCACUCUC A	AGGAUUC	11474	GGAAUCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGUGA	29849
7858	3172	AAGGAUUC C	AUCGCCCC	11475	GGGGCGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCCUU	29850
7859	3171	AGGAUUC A	UCGCCCA	11476	UGGGGCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUAUCU	29851
7864	3166	UCCAUCGC C	CCACAAGG	11477	CCUUGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGAUGGA	29852
7865	3165	CCAUCGCC C	CACAAGGU	11478	ACCUUGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGAUGG	29853
7866	3164	CAUCGCC C	ACAAGGUA	11479	UACCUUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGAUG	29854
7867	3163	AUCGCCCC A	CAAGGUU	11480	AUACCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCGAU	29855
7869	3161	CGCCCCAC A	AGGUAUGC	11481	GCAUACCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGCG	29856
7881	3149	UAUGCGUC U	CAGGCCAC	11482	GUGGCCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCAUA	29857
7883	3147	UGCGUCUC A	GGCCACGU	11483	ACGUGGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGACGCA	29858
7887	3143	UCUCAGGC C	ACGUACAU	11484	AUGUACGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGAGA	29859
7888	3142	CUCAGGCC A	CGUACAUG	11485	CAUGUACG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUGAG	29860
7894	3136	CCACGUAC A	UGAUUUGA	11486	UCAAAUCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUACGUGG	29861
7904	3126	GAUUUGAC U	UCACCCAG	11487	CUGGUGUA	CUGAUGAG	GCCGUUAGGC	CGAA	IUAUAAUC	29862
7907	3123	UUGACUUC A	CCCAGAAC	11488	GUUCUGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUCA	29863
7909	3121	GACUUCAC C	CAGAACUG	11489	CAGUUCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGUC	29864
7910	3120	ACUUCACC C	AGAACUGC	11490	GCAGUUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGAAGU	29865
7911	3119	CUUCACCC A	GAACUGCC	11491	GGCAGUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGAAG	29866
7916	3114	CCCAGAAC U	GCCCUUUC	11492	GAAAGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUGGG	29867
7919	3111	AGAACUGC C	CUUACAAG	11493	CUUGAAAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUUCU	29868
7920	3110	GAACUGCC C	UUUCAAGC	11494	GCUUGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGUUC	29869
7921	3109	AACUGCCC U	UUCAAGCU	11495	AGCUUGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAUUC	29870
7925	3105	GCCCUUUC A	AGCUUCCA	11496	UGGAAGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGGC	29871
7929	3101	UUUCAAGC U	UCCACGUA	11497	UACGUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGAAA	29872
7932	3098	CAAGCUUC C	ACGUUAUC	11498	UGAUACGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCUUG	29873
7933	3097	AAGCUUCC A	CGUAUCAU	11499	AUGAUACG	CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGCUU	29874
7940	3090	CACGUUUC A	UUGAGCCU	11500	AGGCUCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUACGUG	29875
7947	3083	CAUUGAGC C	UGC UUUA	11501	UGAAAGCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUUG	29876
7948	3082	AUUGAGCC U	GCUUUCAA	11502	UUGAAAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCAAU	29877
7951	3079	GAGCCUGC U	UUCAAUCC	11503	GGAUUGAA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGCUC	29878
7955	3075	CUGCUUUC A	AUCCAAUA	11504	UAUUGGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGCAG	29879
7959	3071	UUUCAUUC C	AAUAGGAC	11505	GUCCUAUU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGAAA	29880
7960	3070	UUCAAUCC A	AUAGGACA	11506	UGUCCUAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGAA	29881
7968	3062	AAUAGGAC A	GGUCACUG	11507	CAGUGACC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUAUU	29882
7973	3057	GACAGGUC A	CUGUGGAU	11508	AUCCACAG	CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGUC	29883
7975	3055	CAGGUCAC U	GUGGAUCG	11509	CGAUCCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGACCUG	29884
7985	3045	UGGAUCGC C	AAGUUGUU	11510	AACAACUU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGAUCCA	29885
7986	3044	GGAUCGCC A	AGUUGUUC	11511	GAACAACU	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGAUCC	29886
7995	3035	AGUUGUUC U	UGACAGCC	11512	GGCUGUCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAACAACU	29887
8000	3030	UUUUUGAC A	GCCGUUCC	11513	GGAACGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCAAGAA	29888
8003	3027	UUGACAGC C	GUUCCAAU	11514	AUUGGAAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCAA	29889
8008	3022	AGCCGUUC C	AAUGAUCU	11515	AGAUCAUU	CUGAUGAG	GCCGUUAGGC	CGAA	IAACGGCU	29890
8009	3021	GCCGUUCC A	AUGAUCUU	11516	AAGAUCAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGAACGGC	29891
8016	3014	CAUGAUUC U	UCGAGUCA	11517	UGACUCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUUG	29892
8024	3006	UUCGAGUC A	CAUUCAGU	11518	ACUGAAUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACUCGAA	29893
8026	3004	CGAGUCAC A	UUCAGUUG	11519	CAACUGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGACUCG	29894

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8030	3000	UCACAUUC A GUUGUGUU	11520	AACACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUGA	29895
8041	2989	UGUGUUGC U CUCUCUGA	11521	UCAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAACACA	29896
8043	2987	UGUUGCUC U CUCUGACC	11522	GGUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	29897
8045	2985	UUGCUCUC U CUGACCUU	11523	AAGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCAA	29898
8047	2983	GCUCUCUC U GACCUUCA	11524	UGAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGC	29899
8051	2979	UCUCUGAC C UUCAGGAA	11525	UUCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGA	29900
8052	2978	CUCUGACC U UCAGGAAC	11526	GUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGAG	29901
8055	2975	UGACCUUC A GGAACAUC	11527	GAUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCA	29902
8061	2969	UCAGGAAC A UCCGAGUG	11528	CACUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGA	29903
8064	2966	GGAACAUC C GAGUGCUG	11529	CAGCACUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUC	29904
8071	2959	CCGAGUGC U GGUGAGAC	11530	GUCUCACC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCGG	29905
8080	2950	GGUGAGAC C AAAUCCAA	11531	UUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCACC	29906
8081	2949	GUGAGACC A AAUCCAAA	11532	UUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCAC	29907
8086	2944	CCAAAUC C AAAUCCU	11533	AGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGGU	29908
8087	2943	CCAAAUC C AAAUCCU	11534	GAGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUGG	29909
8093	2937	CCAAAUC C UCCACUUC	11535	GAAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUGG	29910
8094	2936	CAAAUCC U CCACUUCU	11536	AGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUUG	29911
8096	2934	AAAUCCUC C ACUUCUAA	11537	UUAGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUUU	29912
8097	2933	AAUCCUCC A CUUCUAG	11538	CUUAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAUU	29913
8099	2931	UCCUCCAC U UCUAAGCU	11539	AGCUUAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGGA	29914
8102	2928	UCCACUUC U AAGCUAAU	11540	AAUAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUGA	29915
8107	2923	UUCUAAGC U AUUCCAAG	11541	CUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICUUAGAA	29916
8112	2918	AGCUAUUC C AAGCGCGA	11542	UCGCGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGCU	29917
8113	2917	GCUAUUC C AAGCGCGA	11543	AUCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGC	29918
8124	2906	CGCAUUC U GAGUCGGA	11544	UCCGACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCGCG	29919
8134	2896	AGUCGAC A UUCUUGG	11545	CCAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGACU	29920
8138	2892	GGACAUC C UUGGUCUC	11546	GAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCC	29921
8139	2891	GACAUC C UUGGUCUC	11547	GGAGACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGUC	29922
8145	2885	CUUGGUC U CCGGACCA	11548	UGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGG	29923
8147	2883	UUUGGUC C GGACCAUC	11549	GAGGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGACCAA	29924
8152	2878	CUCCGAC C AUCAACCA	11550	UGGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGAG	29925
8153	2877	UCCGGAC C UCAACCAC	11551	GUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCGGA	29926
8156	2874	GGACCAUC A ACCACAAA	11552	UUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUCC	29927
8159	2871	CCAUCAC C ACAAAGGU	11553	ACCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGG	29928
8160	2870	CAUCAACC A CAAAGGUG	11554	CACCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAUG	29929
8162	2868	UCAACCAC A AAGGUGUU	11555	AACACCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUGA	29930
8183	2847	UCGAGUUC U GGUGCAA	11556	UUUUGACC CUGAUGAG	GCCGUUAGGC	CGAA IAAACUCG	29931
8189	2841	GUGGUGC A AAUAAAU	11557	AUUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA ICACCAGA	29932
8200	2830	UAAAUUAC U CUUCCCC	11558	GGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUA	29933
8202	2828	AAAUUAC U UUUCCCAG	11559	CUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUAAUU	29934
8206	2824	ACUUCUUC C CCAGCCU	11560	AGGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGU	29935
8207	2823	CUCUUC C CAGGCCU	11561	AAGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAG	29936
8208	2822	UCUUC C AGGCCU	11562	GAAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAGA	29937
8209	2821	CUUCCCC A GGCCUUC	11563	GGAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAG	29938
8213	2817	CCCAGGC C UCCAGCC	11564	GGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGG	29939
8214	2816	CCCAGGC C UCCAGCC	11565	UGGUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGG	29940
8217	2813	AGGCCUUC C AGCCAAU	11566	AAUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCCU	29941
8218	2812	GGCCUUC A GCCAAUU	11567	AAAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGCC	29942
8221	2809	CUCCAGC C AAUUC	11568	UGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAA	29943
8222	2808	UCCAGCC A AUUCCAA	11569	UUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGAA	29944
8228	2802	CAAUUC C AAUUUUC	11570	GAAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGG	29945
8229	2801	CAUUUC A AUUUUUC	11571	GGAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUG	29946
8237	2793	AAUUUUC C GUGUGGC	11572	GCCACCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAU	29947
8264	2766	UUAGGUC U GACUUGA	11573	UACAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCUAA	29948
8268	2762	GUGCUGAC U UGUACAU	11574	AAUGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAC	29949
8274	2756	ACUUGUAC A UCCCUUC	11575	GGAGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUACAAGU	29950
8278	2752	GUACAUC C CUCCUGU	11576	AACAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUAC	29951
8279	2751	UACAUC C UCCUGUU	11577	AAACAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGUA	29952
8280	2750	ACAUUC C CUUGUU	11578	GAAACAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUGU	29953
8282	2748	AUUCUC C UGUUCUC	11579	GAGAAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAU	29954
8283	2747	UUCUUC C GUUCUA	11580	UGAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAA	29955

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8289	2741	CCUGUUC U CAACCACG	11581	CGUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAACAGG	29956
8291	2739	UGUUUCUC A ACCACGAC	11582	GUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAACA	29957
8294	2736	UUCUCAAC C ACGACACU	11583	AGUGUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGAA	29958
8295	2735	UCUCAACC A CGACACUA	11584	UAGUGUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAGA	29959
8300	2730	ACCACGAC A CUAAGGUC	11585	GACCUUAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGGU	29960
8302	2728	CACGACAC U AAGGUCCA	11586	UGGACCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGUG	29961
8309	2721	CUAAGGUC C ACACCAU	11587	AAUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IACCUUAG	29962
8310	2720	UAAGGUCC A CACCAUUC	11588	GAAUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGACCUUA	29963
8312	2718	AGGUCCAC A CCAUUCUC	11589	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGACCU	29964
8314	2716	GUCCACAC C AUUCUCCU	11590	AGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAC	29965
8315	2715	UCCACACC A UUCUCCUU	11591	AAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGGA	29966
8319	2711	CACCAUUC U CCUCAA	11592	UUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGUG	29967
8321	2709	CCAUCUC C UUCAAAAG	11593	CUUUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUGG	29968
8322	2708	CAUUCUCC U UCAAAAGA	11594	UCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUG	29969
8325	2705	UCUCCUUC A AAAGAGUG	11595	CACUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGA	29970
8337	2693	GAGUGUUC A GCUCGUCC	11596	GGACGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAACACUC	29971
8340	2690	UGUUCAGC U CGUCCUUC	11597	GAAGGACG CUGAUGAG	GCCGUUAGGC	CGAA ICUGAACA	29972
8345	2685	AGCUCGUC C UUCACUGC	11598	GCAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IACGAGCU	29973
8346	2684	GCUCGUCC U UCACUGUC	11599	AGCAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACGAGC	29974
8349	2681	CGUCCUUC A CUGCUUCC	11600	GGAGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGACG	29975
8351	2679	UCCUUCAC U GCUUCCCA	11601	UGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGGA	29976
8354	2676	UUCACUGC U UCCCAU	11602	AUGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGAA	29977
8357	2673	ACUGCUUC C CACAUTUG	11603	CAAAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGU	29978
8358	2672	CUGCUUCC C ACAUUGA	11604	UCAAAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAG	29979
8359	2671	UGCUCUCC A CAUUGAU	11605	AUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGCA	29980
8361	2669	CUUCCAC A UUGAUGC	11606	GCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAAG	29981
8370	2660	UUUGAUC U CCAGUCUG	11607	CAGACUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUCAA	29982
8372	2658	UGAUCUC C AGUCUGGA	11608	UCCAGACU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUCA	29983
8373	2657	GAUCUCC A GUCUGGA	11609	UUCAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAUC	29984
8377	2653	CUCCAGUC U GGAAACUG	11610	CAGUUCC CUGAUGAG	GCCGUUAGGC	CGAA IACUGGAG	29985
8384	2646	CUGGAAAC U GAUCGUAG	11611	CUACGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAG	29986
8395	2635	UCGUAGAC C GCACACUC	11612	GAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUACGA	29987
8398	2632	UAGACGC A CACUCCU	11613	AAGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCUA	29988
8400	2630	GACCGCAC A CUCCUCC	11614	GGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCGGUC	29989
8402	2628	CCGCACAC U CCUCCU	11615	AAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGCGG	29990
8404	2626	GCACACUC C UUCUUAU	11616	AUAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGC	29991
8405	2625	CACACUCC U UCCUUAU	11617	CAUAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUG	29992
8408	2622	ACUCCUUC C UUAUGAGC	11618	GCUCAUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGU	29993
8409	2621	CUCCUCC U UAUGAGCU	11619	AGCUCAUA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAG	29994
8417	2613	UUAUGAGC U UUCUGAAU	11620	AUUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUA	29995
8421	2609	GAGCUUUC U GAAUGAUC	11621	GAUCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCUC	29996
8430	2600	GAAUGAUC U UGGCUAGG	11622	CCUAGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUUC	29997
8435	2595	AUCUUGGC U AGGCUUG	11623	CAAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGU	29998
8440	2590	GGCUAGGC C UUGUGCG	11624	CGCCACA CUGAUGAG	GCCGUUAGGC	CGAA ICCUAGCC	29999
8441	2589	GCUAGGCC U UGUGGCGU	11625	ACGCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUAGC	30000
8453	2577	GGCGUUC A GGGUAAUA	11626	UAUUAACC CUGAUGAG	GCCGUUAGGC	CGAA IAAACGCC	30001
8463	2567	GGUAAUAC U UGUACCGG	11627	CCGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUACC	30002
8469	2561	ACUUGUAC C GGUCCAUC	11628	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA IUACAAGU	30003
8474	2556	UACCGGUC C AUCCAAGC	11629	GCUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCGGUA	30004
8475	2555	ACCGGUCC A UCCAAGCC	11630	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCGGU	30005
8478	2552	GGUCCAUC C AAGCCUCC	11631	UGGAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACC	30006
8479	2551	GUCCAUC A AGCCUCCA	11632	UAGGAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	30007
8483	2547	AUCCAAGC C UCCACAUC	11633	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAU	30008
8484	2546	UCCAAGCC U CCACAUCA	11634	UGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGA	30009
8486	2544	CAAGCCUC C ACAUCAU	11635	AAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUUG	30010
8487	2543	AAGCCUCC A CAUCAUG	11636	CAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGU	30011
8489	2541	GCCUCCAC A UCAUUGUG	11637	CACAAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGGC	30012
8492	2538	UCCAACU A UUGUGUAU	11638	AUACACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGA	30013
8505	2525	GUUGAAC A CUCCAUCU	11639	AAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUAC	30014
8507	2523	AUAACAC U CCACUCC	11640	GGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAU	30015
8509	2521	GAACACUC C ACUCCAC	11641	GUGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUC	30016

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8510	2520	AACACUCC A CUUCCACA	11642	UGUGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUGUU	30017
8512	2518	CACUCCAC U UCCACAUC	11643	GAUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGUG	30018
8515	2515	UCCACUUC C ACAUCUCA	11644	UGAGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGUGA	30019
8516	2514	CCACUUCC A CAUCUCAG	11645	CUGAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUGG	30020
8518	2512	ACUCCAC A UCUCAGCU	11646	AGCUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAGU	30021
8521	2509	UCCACAUC U CAGCUCUU	11647	AAGAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGUGA	30022
8523	2507	CACAUCUC A GCUCUUGC	11648	GCAAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUGUG	30023
8526	2504	AUCUCAGC U CUUGCCGG	11649	CCGCACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAGAU	30024
8528	2502	CUCAGCUC U UGCCGGCU	11650	AGCCGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUGAG	30025
8532	2498	GCUCUUGC C GGCUGAUG	11651	CAUCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGAGC	30026
8536	2494	UUGCCGGC U GAUGUCUA	11652	UAGACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGCAA	30027
8543	2487	CUGAUGUC U AUGGCACA	11653	UGUGCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCAG	30028
8549	2481	UCUAUGGC A CACCCAGU	11654	ACUGGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUAGA	30029
8551	2479	UAUGGCAC A CCCAGUGU	11655	ACACUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCAU	30030
8553	2477	UGGCACAC C CAGUGUCA	11656	UGACACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGCCA	30031
8554	2476	GGCACACC C AGUGUCAG	11657	CUGACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUGCC	30032
8555	2475	GCACACCC A GUGUCAGC	11658	GCUGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGUGC	30033
8561	2469	CCAGUGUC A GCGUGCAC	11659	GUGCACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACUGG	30034
8568	2462	CAGCGUGC A CGUUCACG	11660	CGUGAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGUCG	30035
8574	2456	GCAGGUUC A CGGAGAGG	11661	CCUCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUGC	30036
8589	2441	GGAAGAGC A GAACUCCU	11662	AGGAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCC	30037
8594	2436	AGCAGAAC U CCUCCAAC	11663	GUUGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUGCU	30038
8596	2434	CAGAACUC C UCCAACTG	11664	CAGUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUCUG	30039
8597	2433	AGAACUCC U CCAACUGC	11665	GCAGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUUCU	30040
8599	2431	AACUCCUC C AACUGCGA	11666	UCGCGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGUU	30041
8600	2430	ACUCCUCC A ACUGCGAG	11667	CUCGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGAGU	30042
8603	2427	CCUCCAAC U GCGAGAAA	11668	UUUCUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAGG	30043
8621	2409	GUGAGAGC U AUGGACCU	11669	AGGUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCAC	30044
8628	2402	CUAUGGAC C UAUACGA	11670	UCGUGAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUA	30045
8629	2401	UAUGGACC U AUCACGAG	11671	CUCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCAUA	30046
8633	2397	GACCUAUC A CGAGCAUU	11672	AAUGCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGGUC	30047
8639	2391	UCACGAGC A UUGAUGCC	11673	GGCAUCA A CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGUA	30048
8647	2383	AUUGAUGC C CAUCCACA	11674	UGUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCAAU	30049
8648	2382	UUGAUGCC C AUCCACAA	11675	UUGUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAUCA	30050
8649	2381	UGAUGCCC A UCCACAAC	11676	GUUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAUCA	30051
8652	2378	UGCCCAUC A ACAACAGG	11677	CCUGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCA	30052
8653	2377	GCCCAUCC A CAACAGGA	11678	UCCUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGGC	30053
8655	2375	CCAUCCAC A ACAGGAGA	11679	UCUCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAUGG	30054
8658	2372	UCCACAAC A GGAGAGCC	11680	GGCUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUGGA	30055
8666	2364	AGGAGAGC C CCCAGCAA	11681	UUGCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCCU	30056
8667	2363	GGAGAGCC C CCAGCAAU	11682	AUUGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUCC	30057
8668	2362	GAGAGCCC C CAGCAAUC	11683	GAUUGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUCUC	30058
8669	2361	AGAGCCCC C AGCAAUCC	11684	GGAUUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCUCU	30059
8670	2360	GAGCCCCC A GCAAUCCU	11685	AGGAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGGCUC	30060
8673	2357	CCCCCAGC A AUCCUUGC	11686	GCAAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGGGG	30061
8677	2353	CAGCAAUC C UUGCGUUA	11687	UAAACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGCUG	30062
8678	2352	AGCAAUCC U UGCGUUAU	11688	AUAACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGCU	30063
8688	2342	GCGUUAUC C AGGACAUG	11689	CAUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAAACG	30064
8689	2341	CGUUAUCC A GGACAUGC	11690	GCAUGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUAACG	30065
8694	2336	UCCAGGAC A UGCCUCCG	11691	CGGAGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUGGA	30066
8698	2332	GGACAUGC C UCCGAACA	11692	UGUUCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGUCC	30067
8699	2331	GACAUGCC U CCGAACAG	11693	CUGUUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUGUC	30068
8701	2329	CAUGCCUC C GAACAGUG	11694	CACUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCAUG	30069
8706	2324	CUCCGAAC A GUGAGCGG	11695	CCGCUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCGGAG	30070
8720	2310	CGGAUUGC U CCUCCGAA	11696	UUCGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUCCG	30071
8722	2308	GAAUGCUC C UCCGAACA	11697	UGUUCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAUUC	30072
8723	2307	AAUGCUCU C CCGAACAC	11698	GUGUUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCAU	30073
8725	2305	UGCUCUCC C GAACACUU	11699	AAGUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGCA	30074
8730	2300	CCCGAAC A CUUGAUGG	11700	CCAUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCGGAG	30075
8732	2298	CCGAACAC U UGAUGGAC	11701	GUCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUCGG	30076
8741	2289	UGAUGGAC A GCCUCCCC	11702	GGGAAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUCA	30077

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8744	2286	UGGACAGC C UUCCCAAC	11703	GUUGGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUCCA	30078
8745	2285	GGACAGCC U UCCCAACU	11704	AGUUGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUCC	30079
8748	2282	CAGCCUUC C CAACUGAG	11705	CUCAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGCUG	30080
8749	2281	AGCCUUC C AACUGAGG	11706	CCUCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGGCU	30081
8750	2280	GCCUUC C ACUGAGGU	11707	ACCUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAAGGC	30082
8753	2277	UUCCCAAC U GAGGUGAA	11708	UUCACCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGGAA	30083
8763	2267	AGGUGAAC A CCCUCCA	11709	UGGAGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCACCU	30084
8765	2265	GUGAACAC C CCUCCAAC	11710	GUUGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUCAC	30085
8766	2264	UGAACACC C CUCCAACU	11711	AGUUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUUCA	30086
8767	2263	GAACACCC C UCCAACUG	11712	CAGUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGUUC	30087
8768	2262	AACACCCC U CCAACUGA	11713	UCAGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGUUU	30088
8770	2260	CACCCUC C AACUGAUC	11714	GAUCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGGUG	30089
8771	2259	ACCCUCC A ACUGAUCC	11715	UGAUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGGUU	30090
8774	2256	CCUCCAAC U GAUCCAAA	11716	UUUGGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAGG	30091
8779	2251	AACUGAUC C AAAGUCCC	11717	GGGACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAGUU	30092
8780	2250	ACUGAUCC A AAGUCCA	11718	UGGGACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCAGU	30093
8786	2244	CAAAGUC C CAAGCUGU	11719	ACAGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGG	30094
8787	2243	CAAAGUCC C AAGCUGUG	11720	CACAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUUUG	30095
8788	2242	AAAGUCCC A AGCUGUGU	11721	ACACAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACUUU	30096
8792	2238	UCCCAAGC U GUGUCUCC	11722	GGAGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGGGA	30097
8798	2232	GUGUGUC U CCUAGAGC	11723	GUCUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCAGC	30098
8800	2230	UGUGUCUC C UAGAGCGG	11724	CCGCUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACACA	30099
8801	2229	GUGUCUCC U AGAGCGGC	11725	GCCGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGACAC	30100
8810	2220	AGAGCGGC U AGUCUCUG	11726	CAGAGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCUCU	30101
8815	2215	GGCUGUC U CUGCGCUC	11727	GAGCGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUAGCC	30102
8817	2213	CUAGUCUC U GCGUCCU	11728	AGGAGCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACUAG	30103
8822	2208	CUCUGCGC U CCUUUGAG	11729	CUCAAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCAGAG	30104
8824	2206	CUGCGCUC C UUUGAGGG	11730	CCUCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGCAG	30105
8825	2205	UGCGUCC U UUGAGGGU	11731	ACCUCUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGCA	30106
8846	2184	GUAAGGC U UUGCCAAU	11732	AUUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUUAC	30107
8851	2179	GGCUUUGC C AAUGCUGC	11733	GCAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAGCC	30108
8852	2178	GCUUUGCC A AUGCUGCU	11734	AGCAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAAGC	30109
8857	2173	GCCAAUGC U GCUUCCAG	11735	CUGGAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGGC	30110
8860	2170	AAUGCUGC U UCCAGACU	11736	AGUCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCAU	30111
8863	2167	GCUGCUUC C AGACUUGU	11737	ACAAGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCAGC	30112
8864	2166	CUGCUUCC A GACUUGUG	11738	CACAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGCAG	30113
8868	2162	UUCAGAC U UGUGCCAA	11739	UUGGCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGGAA	30114
8874	2156	ACUUGUGC C AAUGGUGA	11740	UCACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAAGU	30115
8875	2155	CUUGUGCC A AUGGUGAU	11741	AUCACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACAAG	30116
8889	2141	GAUUGAUC U GUUGUUCU	11742	AGAACAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAAUC	30117
8897	2133	UGUUGUUC U CCUCUGCC	11743	GGCAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACAACA	30118
8899	2131	UUGUUCUC C UCUGCCA	11744	UGGGCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAACAA	30119
8900	2130	UGUUCUCC U CUGCCAC	11745	GUGGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAACA	30120
8902	2128	UUCUCCUC U GCCACCA	11746	UGUGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGAA	30121
8905	2125	UCCUCUG C CACCACUA	11747	UAGUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAGGA	30122
8906	2124	CCUCUGCC C ACCACUAU	11748	AUAGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGAGG	30123
8907	2123	CUCUGCCC A CCACUAUG	11749	CAUAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAGAG	30124
8909	2121	CUGCCAC C ACUAUGUA	11750	UACAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGCAG	30125
8910	2120	UGCCACC A CUAUGUAU	11751	AUACAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGGCA	30126
8912	2118	CCCACCAC U AUGUAUGA	11752	UCAUACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUGGG	30127
8924	2106	UAUGAGUC U CCAAGGG	11753	CCCUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCAUA	30128
8926	2104	UGAGUCUC C AAAGGGUG	11754	CACCCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACUCA	30129
8927	2103	GAGUCUCC A AAGGGUGG	11755	CCACCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGACUC	30130
8939	2091	GGUGUUC C AAUCAAU	11756	AUUGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCACC	30131
8940	2090	GUGGUUC A AUUCAAU	11757	GAUUGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACCAC	30132
8945	2085	UCCAAUUC A AUCAGGAC	11758	GUCCUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUGGA	30133
8949	2081	AUUCAAU A GGACCUUA	11759	UAAGGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAAU	30134
8954	2076	AUCAGGAC C UUAGCGUU	11760	AACGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUGAU	30135
8955	2075	UCAGGACC U UAGCGUUG	11761	CAACGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUGA	30136
8966	2064	GCGUUGGC C GUGGCCAC	11762	GUGGCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAACGC	30137
8972	2058	GCCGUGGC C ACUGAAAC	11763	GUUUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACGGC	30138

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8973	2057	CCGUGGCC A CUGAAACA	11764	UGUUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGG	30139
8975	2055	GUGGCCAC U GAAACAAA	11765	UUUGUUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAC	30140
8981	2049	ACUGAAAC A AAAGGGUU	11766	AACCCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCAGU	30141
8993	2037	GGGUUGAC A GUGACCAA	11767	UUGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAACCC	30142
8999	2031	ACAGUGAC C AAUCUGCC	11768	GGCAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	30143
9000	2030	CAGUGACC A AUCUGCCC	11769	GGGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	30144
9004	2026	GACCAAUC U GCCCACUG	11770	CAGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGUC	30145
9007	2023	CAAUCUGC C CACUGGCG	11771	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUG	30146
9008	2022	AAUCUGCC C ACUGGCGU	11772	ACGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAUU	30147
9009	2021	AUCUGCCC A CUGGCGUU	11773	AACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGAU	30148
9011	2019	CUGCCCAC U GGCGUAG	11774	CUAACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGCAG	30149
9027	2003	GGUCGUUC A AUGAAGCC	11775	GGCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA IACGACC	30150
9035	1995	AUGAAGC C ACUGACGA	11776	UCGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAUU	30151
9036	1994	AAUGAGCC A CUGACGAG	11777	CUCGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUCAU	30152
9038	1992	GAAGCCAC U GACGAGAU	11778	AUCUCGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUUC	30153
9053	1977	AUAGGAAC U UUGCAAGG	11779	CCUUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUAU	30154
9058	1972	AACUUUGC A AGGUCCAU	11780	AUGGACCU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGUU	30155
9064	1966	GCAAGGUC C AUCGUGC	11781	GCACGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUGC	30156
9065	1965	CAAGGUCC A UCCGUGCC	11782	GGCACGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUG	30157
9068	1962	GGUCCAUC C GUGCCAGU	11783	ACUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IAUAGACC	30158
9073	1957	AUCCGUGC C AGUGUACU	11784	AGUACACU CUGAUGAG	GCCGUUAGGC	CGAA IACCGAU	30159
9074	1956	UCCGUGCC A GUGUACUG	11785	CAGUACAC CUGAUGAG	GCCGUUAGGC	CGAA IGCACGGA	30160
9081	1949	CAGUGUAC U GCAAUUC	11786	GGAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUACACUG	30161
9084	1946	UGUACUGC A AUUCCAAC	11787	GUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUACA	30162
9089	1941	UGCAAUUC C AACACCAC	11788	GUGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGCA	30163
9090	1940	GCAAUUC C AACACCAC	11789	UGUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGC	30164
9093	1937	AUCCAAC A CCACAGUG	11790	CACUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAAU	30165
9095	1935	UCCAACAC C ACAGUGCC	11791	GGCAGUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGGA	30166
9096	1934	CCAACACC A CAGUGCCG	11792	CGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGG	30167
9098	1932	AACACCAC A GUGCCGUG	11793	CACGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGUU	30168
9103	1927	CACAGUGC C GUGACCUG	11794	CAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGUG	30169
9109	1921	GCCGUGAC C UGUGUCUG	11795	CAGACACA CUGAUGAG	GCCGUUAGGC	CGAA IUCACGGC	30170
9110	1920	CCGUGACC U GUGUCUGC	11796	GCAGACAC CUGAUGAG	GCCGUUAGGC	CGAA IGUCACGG	30171
9116	1914	CCUGUGUC U GCGGAGU	11797	ACUCCCGC CUGAUGAG	GCCGUUAGGC	CGAA IACACAGG	30172
9126	1904	CGGGAGUC C CAAGAAAC	11798	GUUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUCCCG	30173
9127	1903	GGGAGUCC C AAGAAACU	11799	AGUUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IGCACUCC	30174
9128	1902	GGAGUCCC A AGAAACUU	11800	AAGUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGACUCC	30175
9135	1895	CAAGAAAC U UGAAAGCC	11801	GGCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUG	30176
9143	1887	UUGAAAGC C UUUGAACA	11802	UGUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUUCAA	30177
9144	1886	UGAAAGCC U UUGAACAG	11803	CUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUCA	30178
9151	1879	CUUUGAAC A GACGCCAU	11804	AUGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCAAG	30179
9157	1873	ACAGACGC C AUAGGUUG	11805	CAACCUAU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUGU	30180
9158	1872	CAGACGCC A UAGGUUGU	11806	ACAACCUA CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUGU	30181
9169	1861	GGUUGUUC C CUUCAACU	11807	AGUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAACAAC	30182
9170	1860	UUUGUUC C UUCAACUG	11808	CAGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAACAAC	30183
9171	1859	UUGUUCUU C UCAACUGC	11809	GCAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAACAAC	30184
9174	1856	UUCCCUUC A ACUGCAAU	11810	AUUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAA	30185
9177	1853	CCUUCAC U GCAAUUUU	11811	AAAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGG	30186
9180	1850	UCAACUGC A AUUUUUC	11812	GGAAAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGA	30187
9188	1842	AAUUUUUC C AUCUUCAC	11813	GUGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAUU	30188
9189	1841	AUUUUUUC A UCUUCACU	11814	AGUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGA AAAAUU	30189
9192	1838	UUUCCAUC U UCACUCUA	11815	UAGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAAA	30190
9195	1835	CAUCUUC A CUCUACAC	11816	UGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGG	30191
9197	1833	AUCUUCAC U CUACACUU	11817	AAGUGUAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGAU	30192
9199	1831	CUUCACUC U ACACUUCA	11818	UGAAGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAAG	30193
9202	1828	CACUCUAC A CUUCAAU	11819	AUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGAGUG	30194
9204	1826	CUCUACAC U UCAAAUGA	11820	UCAUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUAGAG	30195
9207	1823	UACACUUC A AAUGACCC	11821	GGGUCAUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGUA	30196
9214	1816	CAAAGAC C CGACGUCA	11822	UGACGUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUUG	30197
9215	1815	AAAUGACC C GACGUCAA	11823	UUGACGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAUUU	30198
9222	1808	CCGACGUC A ACUUGACA	11824	UGUCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGUCGG	30199

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9225	1805	ACGUCAAC U UGACAGUG	11825	CACUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGACGU	30200
9230	1800	AACUUGAC A GUGUUGCU	11826	AGCAACAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGUU	30201
9238	1792	AGUGUUGC U UGAAAAUU	11827	AAUUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICAACACU	30202
9248	1782	GAAAAUUC C ACAGGAU	11828	AUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUUC	30203
9249	1781	AAAAUUC A CAGGAUG	11829	CAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAUUUU	30204
9251	1779	AAUUCAC A GGAUUGGC	11830	GCCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUU	30205
9260	1770	GGAUUGC U CCAGCCAA	11831	UUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUCC	30206
9262	1768	AAUGGUC C AGCCAAAG	11832	CUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAUU	30207
9263	1767	AUGGCUCC A GCCAAAGC	11833	GCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAGCCAU	30208
9266	1764	GCUCCAGC C AAAGCUUG	11834	CAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAGC	30209
9267	1763	CUCCAGCC A AAGCUUGA	11835	UCAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGAG	30210
9272	1758	GCCAAAGC U UGAUGCAG	11836	CUGCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGGC	30211
9279	1751	CUUGAUGC A GAGCUCCC	11837	GGGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCAAG	30212
9284	1746	UGCAGAGC U CCCUCUUG	11838	CAAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCA	30213
9286	1744	CAGAGCUC C CUCUUGUG	11839	CACAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCUG	30214
9287	1743	AGAGCUCC C UCUUGUGA	11840	UCACAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUCU	30215
9288	1742	GAGCUCCC U CUUGUGAG	11841	CUCACAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGAGCUC	30216
9290	1740	GCUCCUC U UGUGAGCC	11842	GGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGAGC	30217
9298	1732	UUGUGAGC C CAAUGCUA	11843	UAGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCACAA	30218
9299	1731	UGUGAGCC C AAUGCUAU	11844	AUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCACA	30219
9300	1730	GUGAGCC A AUGCUAUC	11845	GAUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAC	30220
9305	1725	CCCAAUGC U AUCACAGA	11846	UCUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGGG	30221
9309	1721	AUGCUAUC A CAGACUGC	11847	GCAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCAU	30222
9311	1719	GCUAUCAC A GACUGCUU	11848	AAGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAUAGC	30223
9315	1715	UCACAGAC U GCUUCGUG	11849	CACGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUGA	30224
9318	1712	CAGACUGC U UCGUGGCG	11850	CGCCACGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCUG	30225
9335	1695	UGUGGUUC C UCAAACUC	11851	GAGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCACA	30226
9336	1694	GUGGUUCC U CAAACUCC	11852	GGAGUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAC	30227
9338	1692	GGUUCUCC A AACUCCA	11853	AUGGAGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAACC	30228
9342	1688	CCUCAAAC U CCAUUAAC	11854	GUUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGAGG	30229
9344	1686	UCAAACUC C AUUAACGU	11855	ACGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUUUGA	30230
9345	1685	CAAACUCC A UUAACGUC	11856	GACGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUUG	30231
9354	1676	UUAACGUC U CUCUGUUC	11857	GAACAGAG CUGAUGAG	GCCGUUAGGC	CGAA IACGUUAA	30232
9356	1674	AACGUCUC U CUGUUCU	11858	AGGAACAG CUGAUGAG	GCCGUUAGGC	CGAA IAGACGUU	30233
9358	1672	CGUCUCUC U GUUCCUCC	11859	GGAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGACG	30234
9363	1667	CUCUGUUC C UCCACACA	11860	UGUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACAGAG	30235
9364	1666	UCUGUUCU C CCACACAG	11861	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAACA	30236
9366	1664	UGUUCUCC C ACACAGUA	11862	UACUGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAACA	30237
9367	1663	GUUCUCC A CACAGUAC	11863	GUACUGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAC	30238
9369	1661	UCCUCCAC A CAGUACUU	11864	AAGUACUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGGA	30239
9371	1659	CUCCACAC A GUACUUC	11865	GGAAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAG	30240
9376	1654	CACAGUAC U UCCAGCAC	11866	GUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUACUGUG	30241
9379	1651	AGUACUUC C AGCACUGC	11867	GCAGUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUACU	30242
9380	1650	GUACUUC A GCACUGCU	11868	AGCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUAC	30243
9383	1647	CUUCAGC A CUGCUGCA	11869	UGGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAG	30244
9385	1645	UCCAGCAC U GCUCCAAG	11870	CUUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGGA	30245
9388	1642	AGCACUGC U CCAAGGGA	11871	UCCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGCU	30246
9390	1640	CACUGCUC C AAGGGAGG	11872	CCUCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGUG	30247
9391	1639	ACUGCUCC A AGGGAGGU	11873	ACCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGU	30248
9407	1623	UUGAGGUC C AUGAACCA	11874	UGGUUCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	30249
9408	1622	UGAGGUCC A UGAACCAC	11875	GUGGUUCA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUCA	30250
9414	1616	CCAUGAAC C ACUCACGA	11876	UCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCAUGG	30251
9415	1615	CAUGAACC A CUCACGAU	11877	AUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCAUG	30252
9417	1613	UGAACCAU C CACGAUGG	11878	CCAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCA	30253
9419	1611	AACCACUC A CGAUGGAC	11879	GUCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGUU	30254
9428	1602	CGAUGGAC C AAGAACGU	11880	ACGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCG	30255
9429	1601	GAUGGACC A AGAACGUC	11881	GACGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	30256
9438	1592	AGAACGUC U UUGUCCA	11882	UGGAACAA CUGAUGAG	GCCGUUAGGC	CGAA IACGUUCU	30257
9445	1585	CUUUGUUC C AACAGUCA	11883	UGACUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAACAAAG	30258
9446	1584	UUUGUUC A ACAGUCAU	11884	AUGACUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAACAA	30259
9449	1581	GUUCCAAC A GUCAUCAC	11885	GUGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAAC	30260

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9453	1577	CAACAGUC A UCACGUAG	11886	CUACGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGUUG	30261
9456	1574	CAGUCAUC A CGUAGUUA	11887	AUACUACG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUCUG	30262
9467	1563	UAGUAUGC A UUGGUGUC	11888	GACACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAUACUA	30263
9476	1554	UUGGUGUC A AUCCCUGA	11889	UCAGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACACCAA	30264
9480	1550	UGUCAUUC C CUGACCGU	11890	ACGGUACG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACA	30265
9481	1549	GUCAAUCC C UGACCGUG	11891	CACGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAC	30266
9482	1548	UCAAUCCC U GACCGUGG	11892	CCACGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGA	30267
9486	1544	UCCCUGAC C GUGGUUCA	11893	UGAACCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGGA	30268
9494	1536	CGUGGUUC A CAGUCCAC	11894	GUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IAACCACG	30269
9496	1534	UGGUUCAC A GUCCACUG	11895	CAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAACCA	30270
9500	1530	UCACAGUC C ACUGUCAC	11896	GUGACAGU CUGAUGAG	GCCGUUAGGC	CGAA IACUGUGA	30271
9501	1529	CACAGUCC A CUGUCACC	11897	GGUGACAG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGUG	30272
9503	1527	CAGUCCAC U GUCACCUC	11898	GAGGUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGACUG	30273
9507	1523	CCACUGUC A CCUCUCCA	11899	UGGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGG	30274
9509	1521	ACUGUCAC C UCUCUAUA	11900	UAUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGACAGU	30275
9510	1520	CUGUCACC U CUCCAUAU	11901	AUAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACAG	30276
9512	1518	GUCACCUC U CCAUAUUC	11902	GAUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGAC	30277
9514	1516	CACCUCUC C AUAUUCUC	11903	GAGAAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGUG	30278
9515	1515	ACCUCUCC A UAUUCUCC	11904	GGAGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGGU	30279
9521	1509	CCAUAUUC U CCAAGCUU	11905	AAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGG	30280
9523	1507	AUAUUCUC C AAGCUUUA	11906	UAAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUAU	30281
9524	1506	UAUUCUCC A AGCUUUA	11907	CUAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUA	30282
9528	1502	CUCCAAGC U UAUGUGUG	11908	CACACUAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAG	30283
9548	1482	GAAGGCGC C GCAGGAGU	11909	ACUCCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCUUC	30284
9551	1479	GCGCGCGC A GGAGUGAU	11910	AUCACUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCGCC	30285
9562	1468	AGUGAUGC U GAAUCUCC	11911	GGAGAUGC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCACU	30286
9568	1462	GCUGAAUC U CCCUGCCU	11912	AGGCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUCAGC	30287
9570	1460	UGAAUCUC C CUGCCUGA	11913	UCAGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUCA	30288
9571	1459	GAAUCUCC C UGCCUGAG	11914	CUCAGGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUUC	30289
9572	1458	AAUCUCCC U GCCUGAGU	11915	ACUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAUU	30290
9575	1455	CUCCCGUC C UGAGUGGC	11916	GCCACUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGAG	30291
9576	1454	UCCUGGCC U GAGUGGCU	11917	AGCCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGGGA	30292
9584	1446	UGAGUGGC U CCAACCGU	11918	CAGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICCACUCA	30293
9586	1444	AGUGGCUC C AACCGUGU	11919	CACAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCACU	30294
9587	1443	GUGGCUCU A ACCUGUGU	11920	ACACAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGCCAC	30295
9590	1440	GCUCCAAC C UGUGUGGA	11921	UCCACACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGC	30296
9591	1439	CUCCAACC U GUGUGGAG	11922	CUCCACAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAG	30297
9607	1423	GUAGUUC C GUGCGACU	11923	AGUCGCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAACUAC	30298
9615	1415	CGUGCGAC U CCACAGUA	11924	UACUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCACG	30299
9617	1413	UGCGACUC C ACAGUAGU	11925	ACUACUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCA	30300
9618	1412	GCGACUCC A CAGUAGUU	11926	AACUACUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCG	30301
9620	1410	GACUCCAC A GUAGUUGG	11927	CCAACUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUC	30302
9631	1399	AGUUGGUC C AUGGACAA	11928	UUGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCAACU	30303
9632	1398	GUUGGUCC A UGGACAAA	11929	UUUGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAAC	30304
9638	1392	CCAUGGAC A AAAAUGGC	11930	GCCAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUGG	30305
9647	1383	AAAAUGGC C ACUUCGUA	11931	UACGAAGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUUU	30306
9648	1382	AAAUGGCC A CUUCGUAC	11932	GUACGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUUU	30307
9650	1380	AUGGCCAC U UCUGUACU	11933	AAGUACGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAU	30308
9657	1373	CUUCGUAC U UGAUAUUC	11934	GAUAUACA CUGAUGAG	GCCGUUAGGC	CGAA IUACGAAG	30309
9666	1364	UGAUAUUC U CUUCAAG	11935	CUUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUCA	30310
9668	1362	AUAUUCUC U UUCAAGAU	11936	AUCUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUAU	30311
9672	1358	UCUCUUUC A AGAUGGUU	11937	AACCAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGA	30312
9682	1348	GAUGGUUC U UCCUAUUG	11938	CAAUAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCAUC	30313
9685	1345	GGUUCUUC C UAUUGCCU	11939	AGGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACC	30314
9686	1344	GUUCUUCU U AUUGCCUU	11940	AAGGCAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAC	30315
9692	1338	CCUAUUGC C UUGGUAGA	11941	UCUACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUAGG	30316
9693	1337	CUAUUGCC U UGUAGAG	11942	CUCUACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUAG	30317
9703	1327	GGUAGAGC A GGCAAAU	11943	AAUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUACC	30318
9707	1323	GAGCAGGC A AAUUGGC	11944	GCCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGCUC	30319
9718	1312	UUUGGCGC A UUGUCAA	11945	UUGACACA CUGAUGAG	GCCGUUAGGC	CGAA ICGCCAAA	30320
9725	1305	CAUGUGUC A AUGCUUCC	11946	GGAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IACACAUG	30321

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9730	1300	GUCAAUGC U UCCUUGC	11947	GCAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGAC	30322
9733	1297	AAUGCUUC C UUUGCCAA	11948	UUGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAUU	30323
9734	1296	AUGCUUCC U UUUGCCAA	11949	UUUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAU	30324
9739	1291	UCCUUGGC C AAUAUAUC	11950	GAUUAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGGA	30325
9740	1290	CCUUGGCC A AAUAUAUC	11951	GGAUUAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGG	30326
9748	1282	AAUAUAUC C GCAGCCGU	11952	ACGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUAUUU	30327
9751	1279	UAAUCCGC A GCCGUUGC	11953	GCAACGGC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUUAU	30328
9754	1276	UCCGCAGC C GUUGCCCC	11954	GGGGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCGGA	30329
9760	1270	GCCGUUGC C CCAGCCCC	11955	GGGGCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAACGGC	30330
9761	1269	CCGUUGCC C CAGCCCCU	11956	AGGGGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAACGG	30331
9762	1268	CGUUGCCC C AGCCCCUG	11957	CAGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAACG	30332
9763	1267	GUUGCCCC A GCCCCUGU	11958	ACAGGGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAC	30333
9766	1264	GCCCCAGC C CCUGUCCA	11959	UGGACAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGGC	30334
9767	1263	CCCCAGCC C CUGUCCAC	11960	GUGGACAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGGGG	30335
9768	1262	CCCAGCCC C UGUCCACC	11961	GGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA IGGCUGGG	30336
9769	1261	CCAGCCCC U GUCCACCA	11962	UGGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGGGUGGG	30337
9773	1257	CCCUGUC C ACCACUCC	11963	GGAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IACAGGGG	30338
9774	1256	CCUGUCC A CCACUCCU	11964	AGGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGACAGGG	30339
9776	1254	CUGUCCAC C ACUCCUUG	11965	CAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAG	30340
9777	1253	UGUCCACC A CUCCUUGU	11966	ACAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAC	30341
9779	1251	UCCACCAC U CCUUGUCU	11967	AGACAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGGA	30342
9781	1249	CACCACUC C UUGUCUGC	11968	GCAGACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGUG	30343
9782	1248	ACCACUCC U UGUCUGCA	11969	UGCAGACA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGGU	30344
9787	1243	UCCUUGUC U GCACACAA	11970	UUGUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IACAAGGA	30345
9790	1240	UUGUCUGC A CACAAAAG	11971	CUUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGACAA	30346
9792	1238	GUCUGCAC A CAAAAGCU	11972	AGCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAG	30347
9794	1236	CUGCACAC A AAAGCUGG	11973	CCAGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGCAG	30348
9800	1230	ACAAAAGC U GGGUCAGC	11974	GCUGACCC CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGU	30349
9806	1224	GCUGGGUC A GCACGUUU	11975	AAACGUGC CUGAUGAG	GCCGUUAGGC	CGAA IACCCAGC	30350
9809	1221	GGGUCAGC A CGUUUGUC	11976	GACAAACG CUGAUGAG	GCCGUUAGGC	CGAA ICUGACCC	30351
9818	1212	CGUUUGUC A UUGUGAGC	11977	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IACAAACG	30352
9827	1203	UUGUGAGC U UCUCUCAU	11978	AUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCACAA	30353
9830	1200	UGAGCUUC U CCCAUGGU	11979	ACCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCUCA	30354
9832	1198	AGCUUCUC C CAUGGUCG	11980	CGACCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCU	30355
9833	1197	GUUCUCC C AUGGUCGG	11981	CCGACCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGC	30356
9834	1196	CUUGGCC A UGGUCGGG	11982	CCCGACCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAG	30357
9844	1186	GGUCGGGC A CGCAGCUU	11983	AAGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA ICCGACC	30358
9848	1182	GGGCACGC A GCUUUGGU	11984	ACCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGCC	30359
9851	1179	CACGCAGC U UUGGUGGA	11985	UCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGCGUG	30360
9868	1162	GAGAUCGC U GACGGUAG	11986	CUACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCUC	30361
9878	1152	ACGGUAGC C AAUAGCA	11987	UGCUAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUACCGU	30362
9879	1151	CGGUAGCC A AAUAGCAA	11988	UUGCUAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUACCG	30363
9886	1144	CAAAUAGC A AUAACUGC	11989	GCAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUAUUUG	30364
9892	1138	GCAUAUAC U GCGGACCU	11990	AGGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUGC	30365
9899	1131	GUCGGGAC C UCUGCCAG	11991	GUGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCAG	30366
9900	1130	UGCGGACC U CUGCCAGG	11992	CCUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCGCA	30367
9902	1128	CGGACCUC U GCCAGGUU	11993	AACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCCG	30368
9905	1125	ACCUCUGC C AGGUUGAC	11994	GUCAACCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGGU	30369
9906	1124	CCUCUGCC A GGUUGACC	11995	GGUCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGG	30370
9914	1116	AGGUUGAC C GCCUCCAU	11996	AUGGAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAACCU	30371
9917	1113	UUGACCGC C UCCAUAUU	11997	AAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCAA	30372
9918	1112	UGACCGCC U CCAUAUUC	11998	GAAUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGUCA	30373
9920	1110	ACCGCCUC C AUAUUAU	11999	GAUAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGUU	30374
9921	1109	CCGCCUCC A UAUUCAUC	12000	GAUGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGG	30375
9927	1103	CCAUUAUC A UCAUCUUC	12001	GAAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGG	30376
9930	1100	UAUUAUC A UCUCACA	12002	UGUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUA	30377
9933	1097	UCAUCAUC U UCACAUCG	12003	CGAUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUGA	30378
9936	1094	UCAUCUUC A CAUCGAUG	12004	CAUCGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGA	30379
9938	1092	AUCUUCAC A UCGAUGGU	12005	ACCAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGAU	30380
9951	1079	UGGUAGGC U UGUCCUA	12006	UAAGGACA CUGAUGAG	GCCGUUAGGC	CGAA ICCUACCA	30381
9956	1074	GGCUUGUC C UAAGACAU	12007	AUGUCUAA CUGAUGAG	GCCGUUAGGC	CGAA IACAAGCC	30382

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9957	1073	GCUGUCC U UAGACAUG	12008	CAUGUCUA CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGC	30383
9963	1067	CCUUAAGAC A UGAUAGUC	12009	GACUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAAGG	30384
9972	1058	UGAUAGUC A CGCAGCUG	12010	CAGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IACUAUCA	30385
9976	1054	AGUCACGC A GCUGUCGC	12011	GCGACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGACU	30386
9979	1051	CACGCAGC U GUCGCCUU	12012	AAGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCGUG	30387
9985	1045	GCUGUCGC C UUCGAGAA	12013	UUCUCGAA CUGAUGAG	GCCGUUAGGC	CGAA ICGACAGC	30388
9986	1044	CUGUCGCC U UCGAGAAC	12014	GUUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA ICGACAGC	30389
9995	1035	UCGAGAAC C AAUCCAC	12015	GUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCGA	30390
9996	1034	CGAGAAC A AAUCCACC	12016	GGUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUCG	30391
10001	1029	ACCAAUCC C ACCCAUGU	12017	ACAUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGGU	30392
10002	1028	CCAAAUCC A CCCAUGUU	12018	AACAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGU	30393
10004	1026	AAAUCCAC C CAUGUUGC	12019	GCAACAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAUU	30394
10005	1025	AAUCCACC C AUGUUGCU	12020	AGCAACAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAUU	30395
10006	1024	AUCCACCC A UGUUGCUC	12021	GAGCAACA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGGAU	30396
10013	1017	CAUGUUGC U CCAGACAC	12022	GUGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAACAUG	30397
10015	1015	UGUUGCUC C AGACACUC	12023	GAGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	30398
10016	1014	GUUGCUC C A GACACUC	12024	GGAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAAC	30399
10020	1010	CUCACAGC A CUCUUC	12025	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGAG	30400
10022	1008	CCAGACAC U CCUCCAA	12026	UUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGG	30401
10024	1006	AGACACUC C UCCCAAGA	12027	UCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCU	30402
10025	1005	GACACUC U UCCAAAGAA	12028	UUCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCU	30403
10028	1002	ACUCCUUC C AAGAAGUC	12029	GACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGU	30404
10029	1001	CUCUUC C AGAAGUCU	12030	AGACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAG	30405
10037	993	AAGAAGUC U CUGUUGCU	12031	AGCAACAG CUGAUGAG	GCCGUUAGGC	CGAA IACUUCUU	30406
10039	991	GAAGUCUC U GUUGCUC	12032	UGAGCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGACUUC	30407
10045	985	UCUGUUGC U CAUCCAA	12033	UUGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA ICAACAGA	30408
10047	983	UGUUGCUC A UCCAAAGG	12034	CCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	30409
10051	979	GCUAUUC C AAGGCAGU	12035	ACUGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAGC	30410
10052	978	CUCAUUC A AGGCAGU	12036	AACUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAG	30411
10057	973	UCCAAAGC A GUUGAAGC	12037	GCUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGA	30412
10066	964	GUUGAAGC U GUAAGCUG	12038	CAGCUUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAAC	30413
10073	957	CUGUAAGC U GGGGCCAC	12039	GUGGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUACAG	30414
10079	951	GCUGGGGC C ACCAAAG	12040	CUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGC	30415
10080	950	CUGGGGCC A CCAAAGC	12041	GCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCCCCAG	30416
10082	948	GGGGCCAC C AAAAGCAA	12042	UUGCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCCC	30417
10083	947	GGGGCCAC C AAAGCAA	12043	AUUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCCC	30418
10089	941	CCAAAGC A AUAGCACG	12044	CGUGCUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGG	30419
10095	935	GCAUAGC A CGACAAAC	12045	GUUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUAUUGC	30420
10100	930	AGCACGAC A AACACAAC	12046	GUUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGCU	30421
10104	926	CGACAAAC A CAUCUCUC	12047	GAGAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUCG	30422
10106	924	ACAAACAC A ACUCUCUG	12048	CAGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUGU	30423
10109	921	AACACAAC U CUCUGCAU	12049	AUGCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUU	30424
10111	919	CACAACUC U CUGCAUGG	12050	CCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUGUG	30425
10113	917	CAACUCUC U GCAUGGUG	12051	CAACAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUG	30426
10116	914	CUCUCUGC A UGGUGUUG	12052	CAACACCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGAG	30427
10126	904	GGUGUUGC U CCCAAGCA	12053	UGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAACACC	30428
10128	902	UGUUGCUC C CAAGCAUC	12054	GAUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	30429
10129	901	GUUGCUC C AAGCAUCC	12055	GGAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAAC	30430
10130	900	UUGCUC C AAGCAUCC	12056	UGGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGCAA	30431
10134	896	UCCCAAGC A UCCAAACA	12057	UGGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGGA	30432
10137	893	CAAGCAUC C AACCAUG	12058	CAUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUG	30433
10138	892	AAGCAUCC A ACCAUGA	12059	UCAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCUU	30434
10141	889	CAUCCAAC C AAUGACGG	12060	CCGUCAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGAU	30435
10142	888	AUCCAACC A AUGACGGC	12061	GCCGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGAU	30436
10151	879	AUGACGGC U GCCACCAG	12062	CUGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUCAU	30437
10154	876	ACGGUCUC C ACCAGGGC	12063	GCCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGU	30438
10155	875	CGGUCGCC A CCAGGGCA	12064	UGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCCG	30439
10157	873	GCUGCCAC C AGGGCAUA	12065	UAUGCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	30440
10158	872	CUGCCACC A GGGCAUAU	12066	AUAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCAG	30441
10163	867	ACCAGGGC A UAUCAGG	12067	CCUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGU	30442
10168	862	GGCAUAUC C AGGGUUC	12068	GGAACCCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	30443

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10169	861	GCAUAUCC A GGGUCCU	12069	AGGAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUAUGC	30444
10176	854	CAGGGUUC C UCAAGAUC	12070	GAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCCUG	30445
10177	853	AGGGUUCU U CAAGAUC	12071	GGAUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAACCCU	30446
10179	851	GGUUCUC A AGAUCCAU	12072	AUGGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAACC	30447
10185	845	UCAAGAUC C AUGAUUCU	12073	AGAAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGA	30448
10186	844	CAAGAUC C A UGAUUCUG	12074	CAGAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUUG	30449
10193	837	CAUGAUUC U GUUUUAC	12075	GUA AAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCAUG	30450
10202	828	GUUUUAC C AAUACCU	12076	AGGUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAAAAAC	30451
10203	827	UUUUUAC C AAUACCU	12077	AAGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUAAAAA	30452
10209	821	CCAAUAC C UUGUGGCC	12078	GGCCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	30453
10210	820	CAAUAC C UUGUGGCC	12079	AGGCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUUUG	30454
10217	813	CUUGUGGC C UUGUGUCU	12080	AGCACCA CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAG	30455
10218	812	UUGUGGC C UUGUGUCU	12081	CAGCACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCACAA	30456
10225	805	CUUGUGGC C GUCCAUC	12082	GGAUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAG	30457
10229	801	GUGCUGUC C AUCCAAGC	12083	GCUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCAC	30458
10230	800	UGCUGUC C UCCAAGCC	12084	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCA	30459
10233	797	UGUCCAUC C AAGCCCC	12085	GGGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACA	30460
10234	796	GUCCAUC C AAGCCCC	12086	AGGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	30461
10238	792	AUCCAAGC C CCUCUCU	12087	AAGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAU	30462
10239	791	UCCAAGCC C CCUCUCU	12088	CAAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGA	30463
10240	790	CCAAGCCC C CUUCUGU	12089	ACAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUGG	30464
10241	789	CAAGCCC C UUCUUGU	12090	AACAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUUG	30465
10242	788	AAGCCCC C UCUUGUC	12091	GAACAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGCUU	30466
10245	785	CCCCCUC U UGUUCGU	12092	AGCGAACA CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGGG	30467
10253	777	UUGUUCG C U AGAGUGCU	12093	AGCACUCU CUGAUGAG	GCCGUUAGGC	CGAA ICQAACAA	30468
10261	769	UAGAGUG C U UCUCUGU	12094	ACGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICACUCUA	30469
10265	765	GUGCUUC C CCGUGUGU	12095	ACACACGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCAC	30470
10267	763	GCUUUC C GUGUGUCU	12096	AGACACAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAGC	30471
10275	755	CGUGUG C GCACUGUC	12097	GACAGUG CUGAUGAG	GCCGUUAGGC	CGAA IACACAG	30472
10278	752	GUGUGUC A CUGUCAGU	12098	ACUGACAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGACAC	30473
10280	750	GUCUGAC U GUCAGUGA	12099	UCACUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAC	30474
10284	746	GCACUG C GUGACUC	12100	GAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGC	30475
10290	740	UCAGUGAC C UCCGACUG	12101	CAGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUACUGA	30476
10291	739	CAGUGACC U CCGACUGC	12102	GCAGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	30477
10293	737	GUGACUC C GACUGCGU	12103	ACGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAC	30478
10297	733	CCUCCGAC U GCGUCUG	12104	CAAGACGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCGAGG	30479
10303	727	ACUGCGU U UGAGUGGC	12105	GCCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCGAGU	30480
10317	713	GGCUGUG C U UGGUGCAU	12106	AUGCACCA CUGAUGAG	GCCGUUAGGC	CGAA IACACGCC	30481
10324	706	CUUGUG C UCUUCCAU	12107	AUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAG	30482
10327	703	GGUGCAUC U UCCAUAAC	12108	GGUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCACC	30483
10330	700	GCAUCUUC C AUACUGA	12109	UCAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGC	30484
10331	699	CAUCUUC C AUACUGA	12110	GUCAGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAUG	30485
10335	695	UCCAUAAC C UGACGUAG	12111	CUACGUA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGA	30486
10336	694	UCCAUAAC C UGACGUAG	12112	UCUACGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGGA	30487
10346	684	ACGUAGAC U GCUGACU	12113	AAGUCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUACGU	30488
10349	681	UAGACUG C GACUUGU	12114	ACAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCUA	30489
10353	677	CUGCUGAC U UUGUGCAC	12115	GUGCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAG	30490
10360	670	CUUGUG C CCAACAGU	12116	ACUGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICACAAAG	30491
10362	668	UUGUGCAC C AACAGUCG	12117	CGACUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCACAA	30492
10363	667	UGUGCAC C ACAGUCGA	12118	UCGACUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCACA	30493
10366	664	GCACCAAC A GUCGAUGU	12119	ACAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	30494
10376	654	UCGAUGUC U UCUGGAUC	12120	GAUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCCA	30495
10379	651	AUGUCUUC U GGAUCAU	12121	AAUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAU	30496
10385	645	UCUGGAUC A UUAACAGC	12122	GCUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAGA	30497
10390	640	AUCAUAC C AGCCGACA	12123	UGUCGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUAAUGAU	30498
10391	639	UCAUUAAC A GCCGACAG	12124	CUGUCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGA	30499
10394	636	UUAACAGC C GACAGCAC	12125	GUGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUAA	30500
10398	632	CAGCCGAC A GCACUGGG	12126	CCCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCUG	30501
10401	629	CCGACAGC A CUGGGCAU	12127	AUGCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGG	30502
10403	627	GACAGCAC U GGGCAUUC	12128	GAAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGUC	30503
10408	622	CACUGGGC A UUCAUAG	12129	CUUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUG	30504

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10412	618	GGGCAUUC A UAAGUGAU	12130	AUCACUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGCCC	30505
10427	603	AUAGUAUC A UCGACAU	12131	AUGUGCGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUACUUA	30506
10432	598	AUCAUCGC A CAUGUAUC	12132	GAUACAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGAUGAU	30507
10434	596	CAUCGCAC A UGUUCCCC	12133	GGGAUACA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCGAUG	30508
10441	589	CAUGUAUC C CACAUCCA	12134	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUACAUG	30509
10442	588	AUGUAUCC C ACAUCCA	12135	AUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGAUAUUA	30510
10443	587	UGUAUCCC A CAUCCA	12136	AAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGAUACA	30511
10445	585	UAUCCAC A UCCAUUGC	12137	GCAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGAUA	30512
10448	582	CCACAUC C AUUGCUCU	12138	AGAGCAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGG	30513
10449	581	CCACAUC A UUGCUCU	12139	CAGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGUGG	30514
10454	576	UCCAUGC U CUGACAAU	12140	AUUGUCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGGA	30515
10456	574	CAUUGCUC U GACAAUGC	12141	GCAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA	IUGCAUUG	30516
10460	570	GCUCUGAC A AUGCAUAG	12142	CUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGAGC	30517
10465	565	GACAAUGC A UAGGUUCU	12143	AGAACCUA CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGUC	30518
10473	557	AUAGGUUC U UUCCAGCA	12144	UGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAACCUAU	30519
10477	553	GUUCUUUC C AGCAGCUG	12145	CAGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAAC	30520
10478	552	UUCUUUC A GCAGCUGU	12146	ACAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAA	30521
10481	549	UUUCCAGC A GCUGUUGG	12147	CCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGAAA	30522
10484	546	CCAGCAGC U GUUGGAAU	12148	AUUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGG	30523
10502	528	GUGAUGAC A UCUGUGAC	12149	GUCACAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCUACAC	30524
10505	525	AUGACAUC U GUGACGUC	12150	GACGUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUCAU	30525
10514	516	GUGACGUC A GUAGCAU	12151	AAUGCUAC CUGAUGAG	GCCGUUAGGC	CGAA	IACGUCAC	30526
10520	510	UCAGUAGC A UUUACCGU	12152	ACGGUAAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUACUGA	30527
10526	504	GCAUUUAC C GUCAUCAU	12153	AUGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUAAUUGC	30528
10530	500	UUACCGUC A UCAUCACC	12154	GGUGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACGGUAA	30529
10533	497	CCGUCAUC A UCACCUUC	12155	GAAGGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGACGG	30530
10536	494	UCAUCAUC A CCUCCCU	12156	AGGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUGA	30531
10538	492	AUCAUCAC C UUCUUUG	12157	CAAGGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGAU	30532
10539	491	UCAUCACC U UCCCUUGG	12158	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGA	30533
10542	488	UCACCUUC C CUUGGAAG	12159	CUUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGUGA	30534
10543	487	CACCUUCC C UUGGAAGU	12160	ACUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGGUG	30535
10544	486	ACCUUCCC U UGGAAGUU	12161	AACUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGGU	30536
10565	465	AGGGUAAC U GCUCUAC	12162	GUAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IUUACCU	30537
10568	462	GUAAUCUC U CCUACGCU	12163	AGCGUAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUUAC	30538
10570	460	AACUGCUC C UACGUGG	12164	CCAGCGUA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAGUU	30539
10571	459	ACUGUCUC U ACGUGGC	12165	GCCAGCGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAGU	30540
10576	454	UCCUACGC U GGCAUCA	12166	UGAUCGCC CUGAUGAG	GCCGUUAGGC	CGAA	ICGUAGGA	30541
10584	446	UGGCAUC A GGCCAAUC	12167	GAUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGCCA	30542
10588	442	GAUCAGGC C AAUCAUGA	12168	UCAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGAUC	30543
10589	441	AUCAGGCC A AUCAUGAC	12169	GUCAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUGAU	30544
10593	437	GGCCAAUC A UGACUGCA	12170	UGCAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGCC	30545
10598	432	AUCAUGAC U GCAAUUC	12171	GGAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUGAU	30546
10601	429	AUGACUGC A AUUCCGGU	12172	ACCGGAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUCAU	30547
10606	424	UGCAAUUC C GGUCUUUC	12173	GAAAGACC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGCA	30548
10611	419	UUCCGGUC U UCCUCCU	12174	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IACCGGAA	30549
10615	415	GGUCUUUC C UCCUUCU	12175	AAAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGACC	30550
10616	414	GUCUUUUC U CCUUCUU	12176	AAAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAC	30551
10618	412	CUUUCCUC C UCUUUCU	12177	AGAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAAAG	30552
10619	411	UUUCCUCC U CUUUUCU	12178	AAGAAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAAA	30553
10621	409	UCCUCCUC U UUUUUUU	12179	AAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGGA	30554
10626	404	CUCUUUUC U UUUUUUU	12180	AAAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAG	30555
10639	391	UUUUGAGC U CCGCCGAU	12181	AUCGGCGG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAA	30556
10641	389	UUGAGCUC C GCGAUUG	12182	CAUUCGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUCAA	30557
10644	386	AGCUCGCG C GAUUGAU	12183	UAUCAUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGCU	30558
10655	375	UUGAUAGC A CUGGUCAA	12184	UUGACCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUCAA	30559
10657	373	GAUAGCAC U GGUCAAGG	12185	CCUUGACC CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUAUC	30560
10662	368	CACUGGUC A AGGUCCCU	12186	AGGGACCU CUGAUGAG	GCCGUUAGGC	CGAA	IACCAGUG	30561
10668	362	UCAAGGUC C CUAGUUC	12187	GGAACUAG CUGAUGAG	GCCGUUAGGC	CGAA	IACCUUGA	30562
10669	361	CAAGGUCC C UAGUUCU	12188	AGGAACUA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCUUG	30563
10670	360	AAGGUCCC U AGUUCUU	12189	AAGGAACU CUGAUGAG	GCCGUUAGGC	CGAA	IGGACCUU	30564
10676	354	CCUAGUUC C UUCUAAA	12190	UUUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAACUAGG	30565

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10677	353	CUAGUUC U UCUUAAA	12191	UUUUAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUAG	30566
10680	350	GUUCCUUC U UAAACUC	12192	GAGUUUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGAAC	30567
10687	343	CUUAAAAC U CAGAAGGU	12193	ACCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUAAG	30568
10689	341	UAAAACUC A GAAGGUGU	12194	ACACCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUUUUA	30569
10701	329	GGUGUUUC A UCGCUGUU	12195	AACAGCGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAACACC	30570
10706	324	UUCAUCGC U GUUUGUUU	12196	AAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAUGAA	30571
10719	311	GUUUGUUC A CACCUCUC	12197	GAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAACAAAC	30572
10721	309	UUGUUCAC A CCUCUCCA	12198	UGGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAACAA	30573
10723	307	GUUCACAC C UCUCCAUC	12199	GAUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGAAC	30574
10724	306	UUCACACC U CUCCAUCG	12200	CGAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUGAA	30575
10726	304	CACACCUC U CCAUCGAU	12201	AUCGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGUG	30576
10728	302	CACCUCUC C AUCGAUCC	12202	GGAUCCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGGUG	30577
10729	301	ACCUCUCC A UCGAUCCA	12203	UGGAUCGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAGGU	30578
10736	294	CAUCGAUC C AGCACUGC	12204	GCAGUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGAUG	30579
10737	293	AUCGAUCC A GCACUGCU	12205	AGCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCGAU	30580
10740	290	GAUCCAGC A CUGCUCGG	12206	CCGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGAUC	30581
10742	288	UCCAGCAC U GCUCGGGU	12207	ACCCGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGGA	30582
10745	285	AGCACUGC U CGGUCGG	12208	CCGACCCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGCU	30583
10757	273	GUCGGAGC A AUUGCUGU	12209	ACAGCAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCGAC	30584
10763	267	GCAAUUGC U GUGAACCU	12210	AGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUUGC	30585
10770	260	CUGUGAAC C UGAAGAAC	12211	GUUCUUA CUGAUGAG	GCCGUUAGGC	CGAA	IUUACACAG	30586
10771	259	UGUGAAC U GAAGAACG	12212	CGUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCACA	30587
10781	249	AAGAACGC C AAGAGAGC	12213	GCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA	ICGUUCUU	30588
10782	248	AGAACGCC A AGAGAGCC	12214	GGCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUUCU	30589
10790	240	AAGAGAGC C AACACAAA	12215	UUUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCUU	30590
10791	239	AGAGAGCC A ACACAAAU	12216	AUUUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCUCU	30591
10794	236	GAGCCAAC A CAAUUCGU	12217	ACGAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGCUC	30592
10796	234	GCCAACAC A AAUCGUAU	12218	AUACGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUGGC	30593
10809	221	GAUUGGC C CCUUGCCG	12219	CGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAUAC	30594
10810	220	UAUUGGCC C CUUGCCGU	12220	ACGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAAUA	30595
10811	219	AUUGGCCC C UUGCCGUC	12221	GACGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCAAU	30596
10812	218	UUGGCCCC U UGCCGUCG	12222	CGACGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCCAA	30597
10816	214	CCCCUUGC C GUCGAUCA	12223	UGAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGGGG	30598
10824	206	CGUCGAUC A GGCUCAAC	12224	GUUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGACG	30599
10828	202	GAUCAGGC U CAACAUAG	12225	CUAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGAUC	30600
10830	200	UCAGGCUC A ACAUAGCC	12226	GGCUAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCUGA	30601
10833	197	GGCUACAC A UAGCCUC	12227	GAGGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAGCC	30602
10838	192	AACAUAGC C CUCUUCAG	12228	CUGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUGUU	30603
10839	191	ACAUAGCC C UCUCAGU	12229	ACUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUAUGU	30604
10840	190	CAUAGCCC U CUUCAGUC	12230	GACUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUAUG	30605
10842	188	UAGCCUC U UCAGUCCA	12231	UGGACUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCUA	30606
10845	185	CCCUUCUC A GUCCAUC	12232	GAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGGG	30607
10849	181	CUUCAGUC C AAUCAAGG	12233	CCUUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IACUGAAG	30608
10850	180	UUCAGUCC A AUCAGGA	12234	UCCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGACUGAA	30609
10854	176	GUCCAUC A AGGACAAC	12235	GUUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGAC	30610
10860	170	UCAAGGAC A ACACGCGG	12236	CCCGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUGA	30611
10863	167	AGGACAAC A CGCGGGC	12237	GCCCCGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUCCU	30612
10872	158	CGCGGGGC A UCCGCGU	12238	ACGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGCG	30613
10876	154	GGGCAUUC C GCGUUUA	12239	UAAAACGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGCCC	30614
10887	143	GUUUUAGC A UAUUGACA	12240	UGUCAUA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAAAAC	30615
10895	135	AUAUUGAC A GCCCGGCU	12241	AGCCGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUAU	30616
10898	132	UUGACAGC C CGGCUCU	12242	AAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCA	30617
10899	131	UAGACGCC C GGCUCUUG	12243	CAAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGUCA	30618
10903	127	AGCCCGGC U CUUGCCGG	12244	CCGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGGCU	30619
10905	125	CCCGGCUC U UGCCGGGC	12245	GCCCCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCGGG	30620
10909	121	GCUCUUGC C GGGCCUC	12246	GAGGGCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGAGC	30621
10914	116	UGCCGGGC C CUCCUGGU	12247	ACCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGCA	30622
10915	115	GCCGGGCC C UCCUGGUU	12248	AACCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCCGGC	30623
10916	114	CCGGGCCC U CCUGGUUU	12249	AAACCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGG	30624
10918	112	GGGCCUC C UGGUUUCU	12250	AGAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCCC	30625
10919	111	GGCCUCC U GGUUUCU	12251	AAGAAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGGCC	30626

Table IX

10926	104	CUGGUUUC U UAGACAUC	12252	GAUGUCUA CUGAUGAG GCCGUUAGGC	CGAA IAAACCAG	30627
10932	98	UCUUAGAC A UCGAGAUC	12253	GAUCUCGA CUGAUGAG GCCGUUAGGC	CGAA IUCUAAGA	30628
10941	89	UCGAGAUC U UCGUGCUA	12254	UAGCACGA CUGAUGAG GCCGUUAGGC	CGAA IAUUCUGA	30629
10948	82	CUUCGUGC U AAGAAACA	12255	UGUUUCUU CUGAUGAG GCCGUUAGGC	CGAA ICACGAAG	30630
10956	74	UAAGAAAC A GCUCGCAC	12256	GUGCGAGC CUGAUGAG GCCGUUAGGC	CGAA IUUUCUUA	30631
10959	71	GAAACAGC U CGCACUGU	12257	ACAGUGCG CUGAUGAG GCCGUUAGGC	CGAA ICUGUUUC	30632
10963	67	CAGCUCGC A CUGUGUUA	12258	UAACACAG CUGAUGAG GCCGUUAGGC	CGAA ICGAGCUG	30633
10965	65	GCUCGCAC U GUGUUAU	12259	AUUAACAC CUGAUGAG GCCGUUAGGC	CGAA IUGCGAGC	30634
10985	45	UGUUAUUC C UCACAAAC	12260	GUUUGUGA CUGAUGAG GCCGUUAGGC	CGAA IAUUAACA	30635
10986	44	GUUAAUCC U CACAAACA	12261	UGUUUGUG CUGAUGAG GCCGUUAGGC	CGAA IGAUUAAC	30636
10988	42	UAAUCCUC A CAAACACU	12262	AGUGUUUG CUGAUGAG GCCGUUAGGC	CGAA IAGGAUUA	30637
10990	40	AUCCUCAC A AACACUAC	12263	GUAGUGUU CUGAUGAG GCCGUUAGGC	CGAA IUGAGGAU	30638
10994	36	UCACAAAC A CUACUAAG	12264	CUUAGUAG CUGAUGAG GCCGUUAGGC	CGAA IUUUGUGA	30639
10996	34	ACAAACAC U ACUAAGUU	12265	AACUUAGU CUGAUGAG GCCGUUAGGC	CGAA IUGUUUGU	30640
10999	31	AACACUAC U AAGUUUGU	12266	ACAAACUU CUGAUGAG GCCGUUAGGC	CGAA IUAGUGUU	30641
11009	21	AGUUUGUC A GCUCACAC	12267	GUGUGAGC CUGAUGAG GCCGUUAGGC	CGAA IACAAACU	30642
11012	18	UUGUCAGC U CACACAGG	12268	CCUGUGUG CUGAUGAG GCCGUUAGGC	CGAA ICUGACAA	30643
11014	16	GUCAGCUC A CACAGGCG	12269	CGCCUGUG CUGAUGAG GCCGUUAGGC	CGAA IAGCUGAC	30644
11016	14	CAGCUCAC A CAGGCGAA	12270	UUCGCCUG CUGAUGAG GCCGUUAGGC	CGAA IUGAGCUG	30645
11018	12	GCUCACAC A GGCGAACU	12271	AGUUCGCC CUGAUGAG GCCGUUAGGC	CGAA IUGUGAGC	30646

Input Sequence = AF196835_rc. Cut Site = CH/.

Arm Length = 8. Core Sequence = CUGAUGAG GCCGUUAGGC CGAA

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table X: WNV minus strand Zinzyne and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
10	11020	GAUCCUGU G UUCUCGCA	12272	UGCGAGAA GCCGAAAGGCGAGUGAGGUCU ACAGGAUC	30647
16	11014	GUGUUCUC G CACCACCA	12273	UGGUGGUG GCCGAAAGGCGAGUGAGGUCU GAGAACAC	30648
25	11005	CACCACCA G CCACCAUU	12274	AAUGGUGG GCCGAAAGGCGAGUGAGGUCU UGGUGGUG	30649
34	10996	CCACCAUU G UCGGCGCA	12275	UGCGCCGA GCCGAAAGGCGAGUGAGGUCU AAUGGUGG	30650
38	10992	CAUUGUCG G CGCACUGU	12276	ACAGUGCG GCCGAAAGGCGAGUGAGGUCU CGACAAUG	30651
40	10990	UUGUCGGC G CACUGUGC	12277	GCACAGUG GCCGAAAGGCGAGUGAGGUCU GCGACAA	30652
45	10985	GGCGCACU G UGCCGUGU	12278	ACACGCGA GCCGAAAGGCGAGUGAGGUCU AGUGCGCC	30653
47	10983	CGCACUGU G CCGUGUGG	12279	CCACACGG GCCGAAAGGCGAGUGAGGUCU ACAGUGCG	30654
50	10980	ACUGUGCC G UGUGGCTG	12280	CAGCCACA GCCGAAAGGCGAGUGAGGUCU GGCACAGU	30655
52	10978	UGUGCCGU G UGGCUGGU	12281	ACCAGCCA GCCGAAAGGCGAGUGAGGUCU ACGGCACA	30656
55	10975	GCCGUGUG G CUGGUUGU	12282	ACAACCGA GCCGAAAGGCGAGUGAGGUCU CACACGGC	30657
59	10971	UGUGGCTG G UUGUGCAG	12283	CUGCACAA GCCGAAAGGCGAGUGAGGUCU CAGCCACA	30658
62	10968	GGCUGGUU G UGCAGAGC	12284	GCUCUGCA GCCGAAAGGCGAGUGAGGUCU AACCAGCC	30659
64	10966	CUGGUUGU G CAGAGCAG	12285	CUGCUCUG GCCGAAAGGCGAGUGAGGUCU ACAACCG	30660
69	10961	UGUGCAGA G CAGAAGAU	12286	AUCUUCUG GCCGAAAGGCGAGUGAGGUCU UCUGCACA	30661
84	10946	AUCUCCUA G UCUAUCCC	12287	GGGAUAGA GCCGAAAGGCGAGUGAGGUCU UAGGAGAU	30662
95	10935	UAUCCAG G UGUCAAUA	12288	UAUUGACA GCCGAAAGGCGAGUGAGGUCU CUGGGAUA	30663
97	10933	UCCCAGGU G UCAUAUG	12289	CAUAUUGA GCCGAAAGGCGAGUGAGGUCU ACCUGGGA	30664
105	10925	GUCAAUAU G CUGUUUUG	12290	CAAAACAG GCCGAAAGGCGAGUGAGGUCU AUAUUGAC	30665
108	10922	AAUAUGCU G UUUUGUUG	12291	CAACAAAA GCCGAAAGGCGAGUGAGGUCU AGCAUAUU	30666
113	10917	GCUGUUUU G UUGUGGUG	12292	CACCACAA GCCGAAAGGCGAGUGAGGUCU AAAACAGC	30667
116	10914	GUUUUGUU G UGGUGUUU	12293	AAACACCA GCCGAAAGGCGAGUGAGGUCU AACAAAC	30668
119	10911	UUGUUGUG G UGUUUUGU	12294	ACAAAACA GCCGAAAGGCGAGUGAGGUCU CACAACAA	30669
121	10909	GUUUGUGU G UUUUGUGG	12295	CCACAAAA GCCGAAAGGCGAGUGAGGUCU ACCACAAC	30670
126	10904	GGUGUUUU G UGGCACGG	12296	CCGUGCCA GCCGAAAGGCGAGUGAGGUCU AAAACACC	30671
129	10901	GUUUUGUG G CACGGGGU	12297	ACCCCGUG GCCGAAAGGCGAGUGAGGUCU CACAAAAC	30672
136	10894	GGCACGGG G UCUCACU	12298	AGUGGAGA GCCGAAAGGCGAGUGAGGUCU CCCGUGCC	30673
153	10877	AACUCUA G UCCUCCC	12299	GGGAAGGA GCCGAAAGGCGAGUGAGGUCU UAGAGGUU	30674
172	10858	GACCUACA G CUUCAGUC	12300	GACUGAAG GCCGAAAGGCGAGUGAGGUCU UGUAGGUC	30675
178	10852	CAGCUUCA G UCAGGCUG	12301	CAGCCUGA GCCGAAAGGCGAGUGAGGUCU UGAAGCUG	30676
183	10847	UCAGUCAG G CUGGGCCG	12302	CGGCCCAG GCCGAAAGGCGAGUGAGGUCU CUGACTUGA	30677
188	10842	CAGGCUGG G CCGUGCAC	12303	GUGCACGG GCCGAAAGGCGAGUGAGGUCU CCAGCCUG	30678
191	10839	GCUGGGCC G UGCACUUU	12304	AAAGUCCA GCCGAAAGGCGAGUGAGGUCU GGCCACAC	30679
193	10837	UGGGCCGU G CACUUUAA	12305	UUAAAGUG GCCGAAAGGCGAGUGAGGUCU ACGGCCCA	30680
205	10825	UUUAAACC G CGGGGUCU	12306	AGACCCCG GCCGAAAGGCGAGUGAGGUCU GGUUUAAA	30681
210	10820	ACCGCGGG G UCUCUCU	12307	AGAGGAGA GCCGAAAGGCGAGUGAGGUCU CCGCGGUU	30682
227	10803	AACUCUA G UCCUUCG	12308	CGAAAGGA GCCGAAAGGCGAGUGAGGUCU UAGAGGUU	30683
235	10795	GUCCUUUC G CCCUGGUU	12309	AACCAGGG GCCGAAAGGCGAGUGAGGUCU GAAAGGAC	30684
241	10789	UCGCCUG G UUAACACC	12310	GGUGUUAA GCCGAAAGGCGAGUGAGGUCU CAGGGCGA	30685
259	10771	UUACCGGG G CUAGGGCC	12311	GGCCCUAG GCCGAAAGGCGAGUGAGGUCU CCCGUUAA	30686
265	10765	GGCUAGG G CCGGUGG	12312	CCACGCGG GCCGAAAGGCGAGUGAGGUCU CCUAGCCC	30687
268	10762	CUAGGGCC G CGUGGGG	12313	GCCCCACG GCCGAAAGGCGAGUGAGGUCU GGCCCUAG	30688
270	10760	AGGGCCGC G UGGGGCGU	12314	ACGCCCCA GCCGAAAGGCGAGUGAGGUCU GCGGCCCU	30689
275	10755	CGCGUGGG G CGUUGGUU	12315	AACCAACG GCCGAAAGGCGAGUGAGGUCU CCCACGCG	30690
277	10753	CGUGGGGC G UUGGUUUG	12316	CAAAACCA GCCGAAAGGCGAGUGAGGUCU GCCCCACG	30691
281	10749	GGGCGUUG G UUGCCUU	12317	AAGGCAAA GCCGAAAGGCGAGUGAGGUCU CAACGCC	30692
285	10745	GUUGGUUU G CCUUUGUU	12318	AACAAAGG GCCGAAAGGCGAGUGAGGUCU AAACCAAC	30693
291	10739	UUGCCUUU G UUAACCCA	12319	UGGGUUAA GCCGAAAGGCGAGUGAGGUCU AAAGGCAA	30694
300	10730	UUAACCCA G UCCUCCUG	12320	CAGGAGGA GCCGAAAGGCGAGUGAGGUCU UGGGUUAA	30695
311	10719	CUCCUGGG G CACUAUUG	12321	CGAUAGUG GCCGAAAGGCGAGUGAGGUCU CCCAGGAG	30696
319	10711	GCACUAUC G CAGACUGC	12322	GCAGUCUG GCCGAAAGGCGAGUGAGGUCU GAUAGUGC	30697
326	10704	CGCAGACU G CACUCUCC	12323	GGAGAGUG GCCGAAAGGCGAGUGAGGUCU AGUCUGCG	30698
335	10695	CACUCUCC G CAGAGUAG	12324	CUACUCUG GCCGAAAGGCGAGUGAGGUCU GGAGAGUG	30699
340	10690	UCCGCAGA G UAGCACGC	12325	GCGUGCUA GCCGAAAGGCGAGUGAGGUCU UCUGCGGA	30700
343	10687	GCAGAGUA G CACGCCGU	12326	ACGGCGUG GCCGAAAGGCGAGUGAGGUCU UACUCUGC	30701
347	10683	AGUAGCAC G CCGUAGCG	12327	CGCUACGG GCCGAAAGGCGAGUGAGGUCU GUGCUACU	30702
350	10680	AGCACGCC G UAGGUGG	12328	CCACGCUA GCCGAAAGGCGAGUGAGGUCU GCGGUGCU	30703
353	10677	ACGCCGUA G CGUGGUCU	12329	AGACCACG GCCGAAAGGCGAGUGAGGUCU UACGGCGU	30704

355	10675	GCCGUAGC G UGGUCUGA	12330	UCAGACCA GCCGAAAGGCGAGUGAGGUCU	GCUACGGC	30705
358	10672	GUAGCGUG G UCUGACAU	12331	AUGUCAGA GCCGAAAGGCGAGUGAGGUCU	CACGCUAC	30706
370	10660	GACAUUGG G CUUUGAAG	12332	CUUCAAG GCCGAAAGGCGAGUGAGGUCU	CCAUGUC	30707
378	10652	GCUUUGAA G UUAACAACA	12333	UGUUGUAA GCCGAAAGGCGAGUGAGGUCU	UUCAAGC	30708
388	10642	UACAACAU G UGGGGUCC	12334	GGACCCCA GCCGAAAGGCGAGUGAGGUCU	AUGUUGUA	30709
393	10637	CAUGUGGG G UCCUCCUU	12335	AAGGAGGA GCCGAAAGGCGAGUGAGGUCU	CCCACAU	30710
410	10620	CCGAGACG G UUCUGAGG	12336	CCUCAGAA GCCGAAAGGCGAGUGAGGUCU	CGUCUCGG	30711
419	10611	UUCUGAGG G CUUACAUG	12337	CAUGUAAG GCCGAAAGGCGAGUGAGGUCU	CCUCAGAA	30712
437	10593	AUCACUUC G CGGCUUUG	12338	CAAAGCCG GCCGAAAGGCGAGUGAGGUCU	GAAGUGAU	30713
440	10590	ACUUCGCG G CUUUGUUC	12339	GAACAAAG GCCGAAAGGCGAGUGAGGUCU	CGCGAAGU	30714
445	10585	GCGGCUUU G UUCACCCA	12340	UGGGUGAA GCCGAAAGGCGAGUGAGGUCU	AAAGCCGC	30715
454	10576	UUCACCCA G UCCUCCUG	12341	CAGGAGGA GCCGAAAGGCGAGUGAGGUCU	UGGGUGAA	30716
465	10565	CUCCUGGG G UUGAGUCG	12342	CGACUCAA GCCGAAAGGCGAGUGAGGUCU	CCCAGGAG	30717
470	10560	GGGUUGA G UCGCAGGC	12343	GCCGAAAGGCGAGUGAGGUCU	UCAAACCC	30718
473	10557	GUUGAGUC G CAGGCAGC	12344	GCUGCCUG GCCGAAAGGCGAGUGAGGUCU	GACUCAAC	30719
477	10553	AGUCGCAG G CAGCACCG	12345	CGGUGCUG GCCGAAAGGCGAGUGAGGUCU	CUGCGACU	30720
480	10550	CGCAGGCA G CACCGUCU	12346	AGACGGUG GCCGAAAGGCGAGUGAGGUCU	UGCCUGCG	30721
485	10545	GCAGCACC G UCUACUCA	12347	UGAGUAGA GCCGAAAGGCGAGUGAGGUCU	GGUGCUGC	30722
501	10529	AACUUCGG G UGGCGGGA	12348	UCCCGCCA GCCGAAAGGCGAGUGAGGUCU	CGGAAGUU	30723
504	10526	UUCGGGUG G CGGGAACU	12349	AGUUCGGG GCCGAAAGGCGAGUGAGGUCU	CACCGGAA	30724
518	10512	ACUUCGGG G CCUGACUU	12350	AAGUCAGG GCCGAAAGGCGAGUGAGGUCU	CGGGAAGU	30725
595	10435	ACUUUAU G CAUACUUA	12351	UAAGUAGG GCCGAAAGGCGAGUGAGGUCU	AUAAAGU	30726
608	10422	CUUAUAU G UCUAUUA	12352	UAAUAAGA GCCGAAAGGCGAGUGAGGUCU	AAUAUAAG	30727
637	10393	UAUCUACA G UACUGUGU	12353	ACACAGUA GCCGAAAGGCGAGUGAGGUCU	UGUAGAUA	30728
642	10388	ACAGUACU G UGUCCUCA	12354	UGAGGACA GCCGAAAGGCGAGUGAGGUCU	AGUACUGU	30729
644	10386	AGUACUGU G UCCUCAAC	12355	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	ACAGUACU	30730
657	10373	CAACCAA G UUGUGUCU	12356	AGACACAA GCCGAAAGGCGAGUGAGGUCU	UUUGGUUG	30731
660	10370	CCAAAGUU G UGUCUUA	12357	UGAAGACA GCCGAAAGGCGAGUGAGGUCU	AACUUUGG	30732
662	10368	AAAGUUGU G UCUUCAUA	12358	UAUGAAGA GCCGAAAGGCGAGUGAGGUCU	ACAACUUU	30733
679	10351	UCUCUUA G UGAACUCA	12359	UGAGUUA GCCGAAAGGCGAGUGAGGUCU	UAAAGAGA	30734
689	10341	GAAACUAU G UAAUCCAC	12360	GUGGAUUA GCCGAAAGGCGAGUGAGGUCU	AUGAGUUC	30735
720	10310	CGAUGAUU G CUCUGACU	12361	AGUCAGAG GCCGAAAGGCGAGUGAGGUCU	AAUCAUCG	30736
731	10299	CUGACUUG G UUGAUAGC	12362	GCUAUCAA GCCGAAAGGCGAGUGAGGUCU	CAAGUCAG	30737
738	10292	GGUUGAUA G CCACCUUG	12363	CCAGUGG GCCGAAAGGCGAGUGAGGUCU	UAUCAACC	30738
749	10281	ACCUGGAU G UUUUCUGC	12364	GCAGAAA GCCGAAAGGCGAGUGAGGUCU	AUCCAGGU	30739
756	10274	UGUUUUU G CCCACGUG	12365	CACGUGGG GCCGAAAGGCGAGUGAGGUCU	AGAAAACA	30740
762	10268	CUGCCAC G UGGCUCGG	12366	CCGAGCCA GCCGAAAGGCGAGUGAGGUCU	GUGGGCAG	30741
765	10265	CCACGUG G CUCGGGCU	12367	AGCCGAGA GCCGAAAGGCGAGUGAGGUCU	CACGUGGG	30742
771	10259	UGGUCUG G CUCUUGUG	12368	CACAAGAG GCCGAAAGGCGAGUGAGGUCU	CCGAGCCA	30743
777	10253	GGGCUUU G UGCCAAUC	12369	GAUUGGCA GCCGAAAGGCGAGUGAGGUCU	AAGAGCCC	30744
779	10251	GCUCUUGU G CCAUUCAG	12370	CUGAUUGG GCCGAAAGGCGAGUGAGGUCU	ACAAGAGC	30745
788	10242	CCAAUCAG G CUGCCACA	12371	UGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CUGAUUGG	30746
791	10239	AUCAGGCU G CCACACCA	12372	UGGUGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCUGAU	30747
803	10227	CACCAGAU G UCCUCUCG	12373	CGAGAGGA GCCGAAAGGCGAGUGAGGUCU	AUCUGGUG	30748
811	10219	GUCCUCUC G UUUUCCUG	12374	CAGGAAA GCCGAAAGGCGAGUGAGGUCU	GAGAGGAC	30749
830	10200	UAUGGGAC G UCACUCCA	12375	UGGAGUGA GCCGAAAGGCGAGUGAGGUCU	UGCCAUUA	30750
852	10178	CCACUGGG G UUUUGUCU	12376	AGACAAA GCCGAAAGGCGAGUGAGGUCU	CCCAGUGG	30751
857	10173	GGGUUUU G UCUUCCA	12377	AUGGAAGA GCCGAAAGGCGAGUGAGGUCU	AAAACCCC	30752
893	10137	CAACACG G UUCACAGC	12378	GUCUGGAA GCCGAAAGGCGAGUGAGGUCU	CGUGUUUG	30753
911	10119	UCCAACAU G UCCUCUGU	12379	ACAGAGGA GCCGAAAGGCGAGUGAGGUCU	AUGUUGGA	30754
918	10112	UGUCCUCU G UUGUCAUC	12380	GAUGACAA GCCGAAAGGCGAGUGAGGUCU	AGAGGACA	30755
921	10109	CCUCUGUU G UCAUCCAC	12381	GUGGAUGA GCCGAAAGGCGAGUGAGGUCU	AACAGAGG	30756
939	10091	CUCCUCCU G CAUGGAUG	12382	CAUCCAUG GCCGAAAGGCGAGUGAGGUCU	AGGAGGAG	30757
954	10076	UGGACCAC G UGGUUCUU	12383	AGAAACCA GCCGAAAGGCGAGUGAGGUCU	GUGGUCCA	30758
957	10073	ACCACGUG G UUCUCCG	12384	CGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CACGUGGU	30759
966	10064	UUCUCCG G UAGGGACC	12385	GGUCCCUA GCCGAAAGGCGAGUGAGGUCU	CGGAAGAA	30760
990	10040	CAGGGACA G CGGAGCAA	12386	UUGCUCUG GCCGAAAGGCGAGUGAGGUCU	UGUCCUCG	30761
995	10035	ACAGCGGA G CAAUUGGC	12387	GCCAUUUG GCCGAAAGGCGAGUGAGGUCU	UCCGUGU	30762
1002	10028	AGCAAUUG G CGUUGGCC	12388	GGCCAACG GCCGAAAGGCGAGUGAGGUCU	CAUUUGCU	30763
1004	10026	CAAUUGGC G UUGGCCAU	12389	AUGGCCAA GCCGAAAGGCGAGUGAGGUCU	GCCAUUUG	30764
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCUCAUGG GCCGAAAGGCGAGUGAGGUCU	CAACGCCA	30765
1015	10015	GGCCAUGA G CGCAGGU	12391	ACUUGCGG GCCGAAAGGCGAGUGAGGUCU	UCAUGGCC	30766

Table X

1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCUG GCCGAAAGGCGAGUGAGGUCU	GGCUCAUG	30767
1022	10008	AGCCGCAG G UCUCUUCU	12393	AGAAGAGA GCCGAAAGGCGAGUGAGGUCU	CUGCGGCU	30768
1031	9999	UCUCUUCU G UGGAAGUA	12394	UACUCCA GCCGAAAGGCGAGUGAGGUCU	AGAAGAGA	30769
1037	9993	CUGUGGAA G UACAGAAG	12395	CUUCUGUA GCCGAAAGGCGAGUGAGGUCU	UUCACACAG	30770
1045	9985	GUACAGAA G CAGCCACA	12396	UGUGGCUG GCCGAAAGGCGAGUGAGGUCU	UUCUGUAC	30771
1048	9982	CAGAAGCA G CCACAUCU	12397	AGAUGUGG GCCGAAAGGCGAGUGAGGUCU	UGCUUCUG	30772
1059	9971	ACAUCUGG G CAUAAGAC	12398	GUCUUAUG GCCGAAAGGCGAGUGAGGUCU	CCAGAUGU	30773
1071	9959	AAGACUUA G CCAGACAA	12399	UUGUCUGG GCCGAAAGGCGAGUGAGGUCU	UAAGUCU	30774
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACUG GCCGAAAGGCGAGUGAGGUCU	UGUCUGG	30775
1083	9947	GACAAGCA G UGUCGCGG	12401	CCGCGACA GCCGAAAGGCGAGUGAGGUCU	UGCUUGUC	30776
1085	9945	CAAGCAGU G UCGCGGAC	12402	GUCGCGA GCCGAAAGGCGAGUGAGGUCU	ACUGCUUG	30777
1088	9942	GCAGUGUC G CGGACGUU	12403	AACGUCCG GCCGAAAGGCGAGUGAGGUCU	GACACUGC	30778
1094	9936	UCGCGGAC G UUCAUCC	12404	GGAUGGAA GCCGAAAGGCGAGUGAGGUCU	GUCGCGA	30779
1104	9926	UCCAUCUG G CCCUGGA	12405	UCCAGGGG GCCGAAAGGCGAGUGAGGUCU	CGGAUGGA	30780
1118	9912	GGAGAUAU G CGAGUCU	12406	AGAGCUCG GCCGAAAGGCGAGUGAGGUCU	AUAUCUCC	30781
1122	9908	AUAUGCGA G CUCUGCCU	12407	AGGCAGAG GCCGAAAGGCGAGUGAGGUCU	UCGCAUUG	30782
1127	9903	CGAGUCU G CCUACCAA	12408	UUGUAGG GCCGAAAGGCGAGUGAGGUCU	AGAGCUCG	30783
1144	9886	UUCAUCU G UCCUGGC	12409	GCGGAGA GCCGAAAGGCGAGUGAGGUCU	AGGAUGAA	30784
1151	9879	UGUCCUG G CAUGGAAC	12410	GUUCCAUG GCCGAAAGGCGAGUGAGGUCU	CGAGGACA	30785
1165	9865	AACCACCA G UGUUCUUC	12411	GAAGAACA GCCGAAAGGCGAGUGAGGUCU	UGGUGGUU	30786
1167	9863	CCACCAGU G UUCUCCA	12412	UGGAAGAA GCCGAAAGGCGAGUGAGGUCU	ACUGGUGG	30787
1194	9836	UCAAUUCA G UGAAUUGG	12413	CCAUUUA GCCGAAAGGCGAGUGAGGUCU	UGAAUUGA	30788
1202	9828	GUGAAUUG G UUUGAGCA	12414	UGCUCAAA GCCGAAAGGCGAGUGAGGUCU	CAUUAUCAC	30789
1208	9822	UGGUUUGA G CAAAUUGG	12415	CCAUUUUG GCCGAAAGGCGAGUGAGGUCU	UCAAAACA	30790
1222	9808	UGGAACCU G CUGCCAAU	12416	AUUGGCAG GCCGAAAGGCGAGUGAGGUCU	AGGUUCCA	30791
1225	9805	AACCGUCU G CCAUCAU	12417	AUGAUUGG GCCGAAAGGCGAGUGAGGUCU	AGCAGGUU	30792
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGUCAA GCCGAAAGGCGAGUGAGGUCU	UGGAUGGU	30793
1249	9781	AGUUGACG G UUUCCACU	12419	AGUGGAAA GCCGAAAGGCGAGUGAGGUCU	CGUCAACU	30794
1265	9765	UCUUGGAU G UCUUUGCG	12420	CGCAAAGA GCCGAAAGGCGAGUGAGGUCU	AUCCAAGA	30795
1271	9759	AUGUCUUU G CGAACCUU	12421	AAGGUUCG GCCGAAAGGCGAGUGAGGUCU	AAAGACAU	30796
1287	9743	UUGACAUU G CAUUGAGG	12422	CCUCAUUG GCCGAAAGGCGAGUGAGGUCU	UAUGUCA	30797
1298	9732	UUGAGGAA G UGGAGCGA	12423	UCGCUCCA GCCGAAAGGCGAGUGAGGUCU	UUCUCUAA	30798
1303	9727	GAAGUGGA G CGAGGUGG	12424	CCACCUCG GCCGAAAGGCGAGUGAGGUCU	UCCACUUC	30799
1308	9722	GGAGCGAG G UGGCAAAG	12425	CUUUGCCA GCCGAAAGGCGAGUGAGGUCU	CUCGCUCC	30800
1311	9719	GCGAGGUG G CAAAGCGA	12426	UCGCUUUG GCCGAAAGGCGAGUGAGGUCU	CACCUCGC	30801
1316	9714	GUGGCAAA G CGAUCGUC	12427	GACGAUCG GCCGAAAGGCGAGUGAGGUCU	UUUGCCAC	30802
1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCCUGGA GCCGAAAGGCGAGUGAGGUCU	GAUCGCUU	30803
1330	9700	GUCCAGGG G CUUUAACA	12429	UGGUAUAG GCCGAAAGGCGAGUGAGGUCU	CCCUGGAC	30804
1343	9687	ACCACACA G UCAUCUCC	12430	GGAGAUGA GCCGAAAGGCGAGUGAGGUCU	UGUGUGGU	30805
1359	9671	CACUGACA G CCAUGCGG	12431	CCGCAUGG GCCGAAAGGCGAGUGAGGUCU	UGUCAGUG	30806
1364	9666	ACAGCCAU G CGGCUAGG	12432	CUCAGCCG GCCGAAAGGCGAGUGAGGUCU	AUCCUGU	30807
1367	9663	GCCAGCG G CUGAGUCU	12433	AGACUCAG GCCGAAAGGCGAGUGAGGUCU	CCAUGGC	30808
1372	9658	GCGGUGA G UCUUUCU	12434	AAGAAAGA GCCGAAAGGCGAGUGAGGUCU	UCAGCCGC	30809
1396	9634	CUCAAAAC G CCAGGUCC	12435	GGACCUGG GCCGAAAGGCGAGUGAGGUCU	UGUUUGAG	30810
1401	9629	ACAGCCAG G UCCUGACU	12436	AGUCAGGA GCCGAAAGGCGAGUGAGGUCU	CUGGCUGU	30811
1414	9616	GACUUGG G UCCUUUCC	12437	GGAAAGGA GCCGAAAGGCGAGUGAGGUCU	CCAAAGUC	30812
1428	9602	UCCUUUUU G UGAGUUUC	12438	GAAACUCA GCCGAAAGGCGAGUGAGGUCU	AAAAGGGA	30813
1432	9598	UUUUGUGA G UUUCUCCA	12439	UGGAGAAA GCCGAAAGGCGAGUGAGGUCU	UCACAAA	30814
1451	9579	UCAUCUGG G CCAUACAC	12440	GUGAUUGG GCCGAAAGGCGAGUGAGGUCU	CCAGAUGA	30815
1486	9544	CCUACCA G CUGGACGG	12441	CGUCCAG GCCGAAAGGCGAGUGAGGUCU	UGGUGAGG	30816
1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCUGG GCCGAAAGGCGAGUGAGGUCU	CGUCCAGC	30817
1499	9531	ACGGCCAG G UGGUGAA	12443	UUCACCAA GCCGAAAGGCGAGUGAGGUCU	CUGGCCGU	30818
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACUUUCA GCCGAAAGGCGAGUGAGGUCU	CAACCUGG	30819
1509	9521	UGGUGAAA G UGUUUAGG	12445	CCUAAACA GCCGAAAGGCGAGUGAGGUCU	UUUACCA	30820
1511	9519	GUGAAAGU G UUUAGGGC	12446	GCCUAAA GCCGAAAGGCGAGUGAGGUCU	ACUUUCAC	30821
1518	9512	UGUUUAGG G CGUAGGUG	12447	CACCUACG GCCGAAAGGCGAGUGAGGUCU	CCUAAACA	30822
1520	9510	UUUAGGGC G UAGGUGAC	12448	GUCACUUA GCCGAAAGGCGAGUGAGGUCU	GCCUAAA	30823
1524	9506	GGCGUAG G UGACAACU	12449	AGUUGUCA GCCGAAAGGCGAGUGAGGUCU	CUACGCC	30824
1534	9496	GACAACUU G UCCAUCC	12450	GGAGUGGA GCCGAAAGGCGAGUGAGGUCU	AAGUUGUC	30825
1578	9452	CCAUGACG G UUCUCCA	12451	UGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CGUCAUGG	30826
1590	9440	UUCAUCA G CAGCCGGG	12452	CCCGGCTG GCCGAAAGGCGAGUGAGGUCU	UGAUGGAA	30827
1593	9437	CAUCAGCA G CCGGGCGC	12453	GCGCCCG GCCGAAAGGCGAGUGAGGUCU	UGCUGAUG	30828

1598	9432	GCAGCCGG G CGCAUCAC	12454	GUGAUGCG GCCGAAAGGCGAGUGAGGUCU	CCGGCUGC	30829
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGUGAUG GCCGAAAGGCGAGUGAGGUCU	GCCCGGCU	30830
1619	9411	ACAACUUU G UGACGAUA	12456	UAUCGUCA GCCGAAAGGCGAGUGAGGUCU	AAAGUUGU	30831
1629	9401	GACGAUAG G UGAGCUCA	12457	UGAGCUCA GCCGAAAGGCGAGUGAGGUCU	CUAUCGUC	30832
1633	9397	AUAGGUGA G CUCAAUGA	12458	UCAUUGAG GCCGAAAGGCGAGUGAGGUCU	UCACCUAU	30833
1644	9386	CAAUUGAUG G CCCUGGCA	12459	UGCCAGGG GCCGAAAGGCGAGUGAGGUCU	CAUCAUUG	30834
1650	9380	UGGCCUG G CAAGACGC	12460	GCGUCUUG GCCGAAAGGCGAGUGAGGUCU	CAGGGCCA	30835
1657	9373	GGCAAGAC G CCGAUGUU	12461	AACAUCGG GCCGAAAGGCGAGUGAGGUCU	GUCUUGCC	30836
1663	9367	ACGCCGAU G UUCCCAU	12462	AUGGGGAA GCCGAAAGGCGAGUGAGGUCU	AUCGGCGU	30837
1675	9355	CCCAUCAA G CAGCUCAA	12463	UUGAGCUG GCCGAAAGGCGAGUGAGGUCU	UUGAUGGG	30838
1678	9352	AUCAAGCA G CUCAAGCA	12464	UGCUCUAG GCCGAAAGGCGAGUGAGGUCU	UGCUCUAG	30839
1684	9346	CAGCUCAA G CACCUUAG	12465	CUAAGGUG GCCGAAAGGCGAGUGAGGUCU	UUGAGCUG	30840
1692	9338	GCACCUUA G CUUCAUUU	12466	AAAUAGAG GCCGAAAGGCGAGUGAGGUCU	UAAGGUGC	30841
1706	9324	UUUUCCAA G UCAGCUCU	12467	AGAGCUGA GCCGAAAGGCGAGUGAGGUCU	UUGGAAAA	30842
1710	9320	CCAAGUCA G CUCUCGUG	12468	CACGAGAG GCCGAAAGGCGAGUGAGGUCU	UGACUUGG	30843
1716	9314	CAGCUCUC G UGAUGCGG	12469	CCGCAUCA GCCGAAAGGCGAGUGAGGUCU	GAGAGCUG	30844
1721	9309	CUCGUGAU G CGGGUGUC	12470	GACACCCG GCCGAAAGGCGAGUGAGGUCU	AUCACGAG	30845
1725	9305	UGAUGCGG G UGUCCCAG	12471	CUGGGACA GCCGAAAGGCGAGUGAGGUCU	CCGCAUCA	30846
1727	9303	AUGCGGGU G UCCAGGCC	12472	GGCUGGGG GCCGAAAGGCGAGUGAGGUCU	ACCCGCAU	30847
1733	9297	GUGUCCCA G CCAGCUGU	12473	ACAGCUGG GCCGAAAGGCGAGUGAGGUCU	UGGGACAC	30848
1737	9293	CCAGCCCA G CUGUGUCA	12474	UGACACAG GCCGAAAGGCGAGUGAGGUCU	UGGUGGGG	30849
1740	9290	AGCCAGCU G UGUCAUCA	12475	UGAUGACA GCCGAAAGGCGAGUGAGGUCU	AGCUGGCU	30850
1742	9288	CCAGCUGU G UCAUCAGC	12476	GCUGAUGA GCCGAAAGGCGAGUGAGGUCU	ACAGCUGG	30851
1749	9281	UGUCAUCA G CAUAGAUC	12477	GAUCUAUG GCCGAAAGGCGAGUGAGGUCU	UGAUGACA	30852
1760	9270	UAGAUCUU G CCCCCAGG	12478	CCUGGGGG GCCGAAAGGCGAGUGAGGUCU	AAGAUCUA	30853
1768	9262	GCCCCCAG G CCGGGUGC	12479	GCACCCGG GCCGAAAGGCGAGUGAGGUCU	CUGGGGGC	30854
1773	9257	CAGGCCGG G UGCCAACU	12480	AGUUGGCA GCCGAAAGGCGAGUGAGGUCU	CCGGCCUG	30855
1775	9255	GGCCGGGU G CCAACUUC	12481	GAAGUUGG GCCGAAAGGCGAGUGAGGUCU	ACCCGGCC	30856
1786	9244	AACUUCAC G CAGGAUGU	12482	ACAUCUGG GCCGAAAGGCGAGUGAGGUCU	GUGAAGUU	30857
1793	9237	CGCAGGAU G UAACCCAG	12483	CUGGGUUA GCCGAAAGGCGAGUGAGGUCU	AUCCUGCG	30858
1801	9229	GUAACCCA G UUUUUGGA	12484	UCCAAAAA GCCGAAAGGCGAGUGAGGUCU	UGGGUUAC	30859
1811	9219	UUUUGGAG G CCAAGGCC	12485	GGCUUGGG GCCGAAAGGCGAGUGAGGUCU	CUCCAAAA	30860
1817	9213	AGGCCCAA G CCUCGAC	12486	GUCGAGGG GCCGAAAGGCGAGUGAGGUCU	UUGGGCCU	30861
1838	9192	CCUCCUGA G UUCUUUCU	12487	AGAAAGAA GCCGAAAGGCGAGUGAGGUCU	UCAGGAGG	30862
1852	9178	UCUCCAA G CCAGUGGU	12488	ACCACUGG GCCGAAAGGCGAGUGAGGUCU	UUGGAAGA	30863
1856	9174	CCAAGCCA G UGUUCUUC	12489	GAAGACCA GCCGAAAGGCGAGUGAGGUCU	UGGCUUGG	30864
1859	9171	AGCCAGUG G UCUUCAUU	12490	AAUGAAGA GCCGAAAGGCGAGUGAGGUCU	CACUGGCU	30865
1881	9149	AACCCAGA G CCUCGAAC	12491	GUUCGAGG GCCGAAAGGCGAGUGAGGUCU	UCUGGGUU	30866
1898	9132	UCCAGAAA G CGAGUCC	12492	GGAGCUCG GCCGAAAGGCGAGUGAGGUCU	UUUCUGGA	30867
1902	9128	GAAAGCGA G CUCCGAGC	12493	GUCUGGAG GCCGAAAGGCGAGUGAGGUCU	UCGUUUUC	30868
1909	9121	AGCUCCGA G CCACAUGA	12494	UCAUGUGG GCCGAAAGGCGAGUGAGGUCU	UCGAGGCU	30869
1926	9104	ACCAAAUG G CUCUGCUU	12495	AAGCAGAG GCCGAAAGGCGAGUGAGGUCU	CAUUGGUU	30870
1931	9099	AUGGCUCU G CUUCCCUU	12496	AAGGGAAG GCCGAAAGGCGAGUGAGGUCU	AGAGCCAU	30871
1941	9089	UUCCCUUG G CCUUUCG	12497	CGGAAAGG GCCGAAAGGCGAGUGAGGUCU	CAAGGGAA	30872
1960	9070	CUCUCCGG G UUUUUUCU	12498	AGAAAAAA GCCGAAAGGCGAGUGAGGUCU	CCGAGAGG	30873
1985	9045	CCCAUCAU G UUGUAAAU	12499	AUUUACAA GCCGAAAGGCGAGUGAGGUCU	AUGAUGGG	30874
1988	9042	AUCAUGUU G UAAUUGCA	12500	UGCAUUUA GCCGAAAGGCGAGUGAGGUCU	AACAUGAU	30875
1994	9036	UUGUAAAU G CAAGUGUG	12501	CACACUUG GCCGAAAGGCGAGUGAGGUCU	AUUUACAA	30876
1998	9032	AAAUUGCA G UGUGACAU	12502	AUGUCACA GCCGAAAGGCGAGUGAGGUCU	UUGCAUUU	30877
2000	9030	AUGCAAGU G UGACAUUC	12503	GAAUGUCA GCCGAAAGGCGAGUGAGGUCU	ACUUGCAU	30878
2014	9016	UUCCCCC G CAGAUGUG	12504	CACAUCUG GCCGAAAGGCGAGUGAGGUCU	GGGGGGAA	30879
2020	9010	CCGCAGAU G UGCCUCGC	12505	GCGAGGCA GCCGAAAGGCGAGUGAGGUCU	AUCUCGGG	30880
2022	9008	GCAGAUGU G CCUCGCGC	12506	GCGCGAGG GCCGAAAGGCGAGUGAGGUCU	ACAUUCGC	30881
2027	9003	UGUGCCUC G CGCUCUC	12507	GAGGAGCG GCCGAAAGGCGAGUGAGGUCU	GAGGCACA	30882
2029	9001	UGCCUCGC G CUCCUCAU	12508	AUGAGGAG GCCGAAAGGCGAGUGAGGUCU	GCGAGGCA	30883
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAG GCCGAAAGGCGAGUGAGGUCU	AGUUGAAG	30884
2079	8951	CUUCUCUG G CGCUCUC	12510	GAGGAGCG GCCGAAAGGCGAGUGAGGUCU	CAGAGAAG	30885
2081	8949	UCUCUGGC G CUCCUCCA	12511	UGGAGGAG GCCGAAAGGCGAGUGAGGUCU	GCCAGAGA	30886
2098	8932	UUGAUUCU G CUUUUCAA	12512	UUGAAGAG GCCGAAAGGCGAGUGAGGUCU	AGAAUCAA	30887
2112	8918	CAAACUUG G CACCCAAA	12513	UUUGGGUG GCCGAAAGGCGAGUGAGGUCU	CAUGUUUG	30888
2121	8909	CACCCAAA G CUGCAUUG	12514	CAADGACG GCCGAAAGGCGAGUGAGGUCU	UUUGGGUG	30889
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAAUG GCCGAAAGGCGAGUGAGGUCU	AGCUUUGG	30890

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2129	8901	GCUGCAUU G CUGUUGAC	12516	GUCAACAG GCCGAAAGGCGAGUGAGGUCU AAUGCAGC	30891
2132	8898	GCAUUGCU G UUGACCUU	12517	AAGGUCAA GCCGAAAGGCGAGUGAGGUCU AGCAAUGC	30892
2162	8868	UCUCGAGA G CACAUCU	12518	AGAAUGUG GCCGAAAGGCGAGUGAGGUCU UCUCGAGA	30893
2176	8854	UCUGGGAC G UUUUUCUC	12519	GAGAAAAA GCCGAAAGGCGAGUGAGGUCU GUCCAGA	30894
2187	8843	UUUCUCUG G CCAAAAAC	12520	GUUUUUGG GCCGAAAGGCGAGUGAGGUCU CAGAGAA	30895
2196	8834	CCAAAAAC G CCCACAAC	12521	GUUGUGGG GCCGAAAGGCGAGUGAGGUCU GUUUUUGG	30896
2207	8823	CACAACCA G UUGGUGGU	12522	ACCACCAA GCCGAAAGGCGAGUGAGGUCU UGGUUGUG	30897
2211	8819	ACCAGUUG G UGGUCUCA	12523	UGAGACCA GCCGAAAGGCGAGUGAGGUCU CAACUGGU	30898
2214	8816	AGUUGGUG G UCUCAUUG	12524	CAAUGAGA GCCGAAAGGCGAGUGAGGUCU CACCAACTU	30899
2224	8806	CUCAUUGA G CACGUACU	12525	AGUACGUG GCCGAAAGGCGAGUGAGGUCU UCAAUGAG	30900
2228	8802	UUGAGCAC G UACUUCAC	12526	GUGAAGUA GCCGAAAGGCGAGUGAGGUCU GUGUCUAA	30901
2245	8785	UCCUUCUG G CGGUUCAG	12527	CUGAACCG GCCGAAAGGCGAGUGAGGUCU CAGAAGGA	30902
2248	8782	UUCUGGCG G UUCAGGAG	12528	CUCCUGAA GCCGAAAGGCGAGUGAGGUCU CGCCAGAA	30903
2256	8774	GUUCAGGA G CUUUCGUG	12529	CACGAAAG GCCGAAAGGCGAGUGAGGUCU UCCUGAAC	30904
2262	8768	GAGCUUUC G UGUCCACC	12530	GGUGGACA GCCGAAAGGCGAGUGAGGUCU GAAAGCUC	30905
2264	8766	GCUUUCGU G UCCACCUU	12531	AAGGUGGA GCCGAAAGGCGAGUGAGGUCU ACGAAAGC	30906
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG GCCGAAAGGCGAGUGAGGUCU GAGUUGUC	30907
2290	8740	CACUCGCU G CUGCCCGA	12533	UCGGGCAG GCCGAAAGGCGAGUGAGGUCU AGCGAGUG	30908
2293	8737	UCGCGUCU G CCCGAAGG	12534	CCUUCGGG GCCGAAAGGCGAGUGAGGUCU AGCAGCGA	30909
2304	8726	CGAAGGGA G UAGUGUCA	12535	UGACACUA GCCGAAAGGCGAGUGAGGUCU UCCCUUCG	30910
2307	8723	AGGGAGUA G UGUCAGUC	12536	GACUGACA GCCGAAAGGCGAGUGAGGUCU UACUCCCU	30911
2309	8721	GGAGUAGU G UCAGUCAU	12537	AUGACUGA GCCGAAAGGCGAGUGAGGUCU ACUACUCC	30912
2313	8717	UAGUGUCA G UCAUGGCC	12538	GGCCAUGA GCCGAAAGGCGAGUGAGGUCU UGACACUA	30913
2319	8711	CAGUCAUG G CCAUGGUG	12539	CACCAUGG GCCGAAAGGCGAGUGAGGUCU CAUGACUG	30914
2325	8705	UGGCCAUG G UGGUAACA	12540	UGUUAACA GCCGAAAGGCGAGUGAGGUCU CAUGGCCA	30915
2328	8702	CCAUGGUG G UAACAUUC	12541	GAAUGUUA GCCGAAAGGCGAGUGAGGUCU CACCAUGG	30916
2337	8693	UAACAUUC G UGAUGGUG	12542	CACCAUCA GCCGAAAGGCGAGUGAGGUCU GAAUGUUA	30917
2343	8687	UCGUGAUG G UGUCCCAU	12543	AUGGGACA GCCGAAAGGCGAGUGAGGUCU CAUCACGA	30918
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCAUGGGA GCCGAAAGGCGAGUGAGGUCU ACCAUAC	30919
2353	8677	GUCCCAUG G UUUUGAGA	12545	UCUCAAAA GCCGAAAGGCGAGUGAGGUCU CAUGGGAC	30920
2365	8665	UGAGAGGA G CCUGACCA	12546	UGGUCAGG GCCGAAAGGCGAGUGAGGUCU UCCUCUCA	30921
2386	8644	AUUGACCA G CGAACUGG	12547	CCAGUUCG GCCGAAAGGCGAGUGAGGUCU UGGUCAAU	30922
2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCUCCG GCCGAAAGGCGAGUGAGGUCU CAGUUCGC	30923
2399	8631	CUGGCCGA G CCUGUGGG	12549	CCCACAGG GCCGAAAGGCGAGUGAGGUCU UCCGCCAG	30924
2403	8627	CGGAGCCU G UGGGCUUC	12550	GAAGCCCA GCCGAAAGGCGAGUGAGGUCU AGGCUCCG	30925
2407	8623	GCCUGUGG G CUUCACAU	12551	AUGUGAAG GCCGAAAGGCGAGUGAGGUCU CCACAGGC	30926
2423	8607	UCAUAACU G CCGUGAUA	12552	UAUCAAGG GCCGAAAGGCGAGUGAGGUCU AGUUAUGA	30927
2426	8604	UAACUGCC G UGAUAGUU	12553	AACUAUCA GCCGAAAGGCGAGUGAGGUCU GGCAGUUA	30928
2432	8598	CCGUGAUA G UUCAGGU	12554	ACCUGGAA GCCGAAAGGCGAGUGAGGUCU UAUCACGG	30929
2439	8591	AGUUCAG G UUCUAUAU	12555	AUAUAGAA GCCGAAAGGCGAGUGAGGUCU CUGAUAU	30930
2450	8580	CUAUUAGG G UGGUUCUC	12556	GAGAACCA GCCGAAAGGCGAGUGAGGUCU CCAUUAAG	30931
2453	8577	UAUGGUGG G UUCUCAUC	12557	GAUGAGAA GCCGAAAGGCGAGUGAGGUCU CACCUAUA	30932
2462	8568	UUUCUAUC G UGGUGCCA	12558	UGGCACCA GCCGAAAGGCGAGUGAGGUCU GAUGAGAA	30933
2465	8565	UCAUCGUG G UGCCACGU	12559	ACGUGGCA GCCGAAAGGCGAGUGAGGUCU CACGAUGA	30934
2467	8563	AUCGUGGU G CCACGUCG	12560	CGACGUGG GCCGAAAGGCGAGUGAGGUCU ACCACGAU	30935
2472	8558	GGUGCCAC G UCGAACUG	12561	CAGUUCGA GCCGAAAGGCGAGUGAGGUCU GUGGCACC	30936
2480	8550	GUCGAACU G UACUCACG	12562	CGUGAGUA GCCGAAAGGCGAGUGAGGUCU AGUUCGAC	30937
2488	8542	GUACUCAC G CCUGAGUC	12563	GATUCAGG GCCGAAAGGCGAGUGAGGUCU GUGAGUAC	30938
2494	8536	ACGCCUGA G UCGUCAA	12564	UUGAACGA GCCGAAAGGCGAGUGAGGUCU UCAGGCGU	30939
2497	8533	CCUGAGUC G UUCAAUCC	12565	GGAUUGAA GCCGAAAGGCGAGUGAGGUCU GACUCAGG	30940
2507	8523	UCAAUCCU G UUCUUGAU	12566	AUCAAGAA GCCGAAAGGCGAGUGAGGUCU AGGAUUGA	30941
2523	8507	UUUUACUG G UGUCUGAG	12567	CUCAGACA GCCGAAAGGCGAGUGAGGUCU CAGUAAAA	30942
2525	8505	UUACUGGU G UCUGAGUU	12568	AACUCAGA GCCGAAAGGCGAGUGAGGUCU ACCAGUAA	30943
2531	8499	GUGUCUGA G UUGAGCAG	12569	CUGCUCAA GCCGAAAGGCGAGUGAGGUCU UCAGACAC	30944
2536	8494	UGAGUUGA G CAGGGGUU	12570	AACCCUGG GCCGAAAGGCGAGUGAGGUCU UCAACUCA	30945
2542	8488	GAGCAGGG G UUUUCCCA	12571	UGGGAAAA GCCGAAAGGCGAGUGAGGUCU CCCUGCUC	30946
2553	8477	UUCCCACC G CCCUGGUU	12572	AACCAGGG GCCGAAAGGCGAGUGAGGUCU GGUGGGAA	30947
2559	8471	CCGCCUGG G UUCACAUU	12573	AAGUGGAA GCCGAAAGGCGAGUGAGGUCU CAGGCGGG	30948
2573	8457	CUUCCCAA G UUUACAUC	12574	GAUGUAAA GCCGAAAGGCGAGUGAGGUCU UUGGGAAG	30949
2588	8442	UCUUCCUC G UAUUGGGG	12575	CCCCAUA GCCGAAAGGCGAGUGAGGUCU GAGGAAGA	30950
2596	8434	GUUUGGGG G UCCCUUCC	12576	GGAAGGGA GCCGAAAGGCGAGUGAGGUCU CCCAUUAC	30951
2607	8423	CCUUCCAG G UCCUUUUU	12577	AAAAAGGA GCCGAAAGGCGAGUGAGGUCU CUGGAAGG	30952

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2632	8398	UCCUAGGA G CACCUGGC	12578	GCCAGGUG GCCGAAAGGCGAGUGAGGUCU	UCCUAGGA	30953
2639	8391	AGCACCUG G CUGGUCAU	12579	AUGACCAG GCCGAAAGGCGAGUGAGGUCU	CAGGUGCU	30954
2643	8387	CCUGGCUG G UCAUAUUC	12580	GAAUAUGA GCCGAAAGGCGAGUGAGGUCU	CAGCCAGG	30955
2659	8371	CACUGAAU G UACCACAU	12581	AUGUGGUA GCCGAAAGGCGAGUGAGGUCU	AUUCAGUG	30956
2669	8361	ACCACAUU G CCUGAAGC	12582	GCUUCAGG GCCGAAAGGCGAGUGAGGUCU	AAUGUGGU	30957
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGUCGAG GCCGAAAGGCGAGUGAGGUCU	UUCAGGCA	30958
2699	8331	UACAUCUC G UGCGUGGA	12584	UCCACGCA GCCGAAAGGCGAGUGAGGUCU	GAGAUGUA	30959
2701	8329	CAUCUCGU G CGUGGAAU	12585	AUUCACAG GCCGAAAGGCGAGUGAGGUCU	ACGAGAUG	30960
2703	8327	UCUCGUGC G UGGAUUC	12586	GAAUUGCA GCCGAAAGGCGAGUGAGGUCU	GCACGAGA	30961
2713	8317	GGAAUUCG G UGAGAGUG	12587	CACUCUCA GCCGAAAGGCGAGUGAGGUCU	GGAAUUCG	30962
2719	8311	CCGUGAGA G UGGGUUUC	12588	GAAACCCA GCCGAAAGGCGAGUGAGGUCU	UCUCACGG	30963
2723	8307	GAGAGUGG G UUUCUGAC	12589	GUCAGAAA GCCGAAAGGCGAGUGAGGUCU	CCACUCUC	30964
2734	8296	UCUGACCA G UCCCCCCC	12590	GGGGGGGA GCCGAAAGGCGAGUGAGGUCU	UGGUCAGA	30965
2750	8280	CCAUAACG G CGUUGGAG	12591	CUCCAACG GCCGAAAGGCGAGUGAGGUCU	CGGUAUGG	30966
2752	8278	AUACCGGC G UUGGAGCA	12592	UGCUCCAA GCCGAAAGGCGAGUGAGGUCU	GCCGGUAU	30967
2758	8272	GCGUUGGA G CAGCUCCA	12593	UGGAGCUG GCCGAAAGGCGAGUGAGGUCU	UCCAACGC	30968
2761	8269	UUGGAGCA G CUCCAUCU	12594	AGAUGGAG GCCGAAAGGCGAGUGAGGUCU	UGCUCCAA	30969
2785	8245	GACUUCUG G CAUGUAGG	12595	CCUACAUG GCCGAAAGGCGAGUGAGGUCU	CGAAAGUC	30970
2789	8241	UUUGGCAU G UAGGGGCA	12596	UGCCCCUA GCCGAAAGGCGAGUGAGGUCU	AUGCCGAA	30971
2795	8235	AUGUAGGG G CAGAGCAC	12597	GUGCUCUG GCCGAAAGGCGAGUGAGGUCU	CCCUACAU	30972
2800	8230	GGGGCAGA G CACCUUCA	12598	UGAAGGUG GCCGAAAGGCGAGUGAGGUCU	UCUGCCCC	30973
2810	8220	ACCUUCAC G CAAAUUC	12599	GAAUUIUG GCCGAAAGGCGAGUGAGGUCU	GUGAAGGU	30974
2824	8206	UUCCCUUG G CCCUCGGU	12600	ACCGAGGG GCCGAAAGGCGAGUGAGGUCU	CAAGGGAA	30975
2831	8199	GGCCCUUG G UGCAGCCA	12601	UGGUCUGA GCCGAAAGGCGAGUGAGGUCU	CGAGGGCC	30976
2833	8197	CCCUUGGU G CAGCCAGU	12602	ACUGGCGU GCCGAAAGGCGAGUGAGGUCU	ACCGAGGG	30977
2836	8194	UCGGUGCA G CCAGUCCU	12603	AGGACUGG GCCGAAAGGCGAGUGAGGUCU	UGCACCGA	30978
2840	8190	UGCAGCCA G UCCUCAAC	12604	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	UGGUCUGA	30979
2868	8162	CCCGAAUC G UCCUAUGC	12605	GCAUAGGA GCCGAAAGGCGAGUGAGGUCU	GAUUCGGG	30980
2875	8155	CGUCCUAU G CUCUCAA	12606	UUGAAGAG GCCGAAAGGCGAGUGAGGUCU	AUAGGACG	30981
2889	8141	CAACCCUA G CACUUGAC	12607	GUCAAAGU GCCGAAAGGCGAGUGAGGUCU	UGAGGUUG	30982
2912	8118	UCUCOGAU G UCACAAAG	12608	CUUUGUGA GCCGAAAGGCGAGUGAGGUCU	AUCGGAGA	30983
2925	8105	AAAGGAGG G UGUACAA	12609	UUGUGACA GCCGAAAGGCGAGUGAGGUCU	CCUCCUUU	30984
2927	8103	AGAGAGGU G UCACAACA	12610	UGUUGUGA GCCGAAAGGCGAGUGAGGUCU	ACCCUCCU	30985
2944	8086	CUCAGAGG G UCUGUAGA	12611	UCUACAGA GCCGAAAGGCGAGUGAGGUCU	CUUCUGAG	30986
2948	8082	GAAGGUCU G UAGAACAC	12612	GUGUUCUA GCCGAAAGGCGAGUGAGGUCU	AGACCUUC	30987
2976	8054	UCUUAUG G UGACAAUG	12613	CAUUGUCA GCCGAAAGGCGAGUGAGGUCU	CAUGAAGA	30988
2984	8046	GUGACAAU G UUCAUCC	12614	GGAUGGAA GCCGAAAGGCGAGUGAGGUCU	AUUGUCAC	30989
3001	8029	AUAACUUU G CACUAGUU	12615	AACUAGUG GCCGAAAGGCGAGUGAGGUCU	AAAGUUUU	30990
3007	8023	UUGCACUA G UUGGGGCU	12616	AGCCCCAA GCCGAAAGGCGAGUGAGGUCU	UAGUGCAA	30991
3013	8017	UAGUUGGG G CUCUUCAU	12617	AUGAAGAG GCCGAAAGGCGAGUGAGGUCU	CCCAACUA	30992
3022	8008	CUCUUCAU G UCCGGGAC	12618	GUCCCCGA GCCGAAAGGCGAGUGAGGUCU	AUGAAGAG	30993
3032	7998	CCGGGACC G CCCUUUGU	12619	ACAAAGGG GCCGAAAGGCGAGUGAGGUCU	GGUCCCCG	30994
3039	7991	CGCCCUUU G UGUACCCU	12620	AGGGUACA GCCGAAAGGCGAGUGAGGUCU	AAAGGGCG	30995
3041	7989	CCCUUUGU G UACCCUCU	12621	AGAGGGUA GCCGAAAGGCGAGUGAGGUCU	ACAAAGGG	30996
3072	7958	UUUUUUGG G UUGCCAUU	12622	UAUUGCAA GCCGAAAGGCGAGUGAGGUCU	CCAAAAAA	30997
3075	7955	UUUGGGUU G CCAUUAUG	12623	CUAUUAUG GCCGAAAGGCGAGUGAGGUCU	AACCCAAA	30998
3083	7947	GCCAUUAU G UAACACCA	12624	UGGUGUUA GCCGAAAGGCGAGUGAGGUCU	UAUAUGGC	30999
3095	7935	CACCAACC G CCUCUUC	12625	GGAAGAGG GCCGAAAGGCGAGUGAGGUCU	GGUUGGUG	31000
3113	7917	CAUCCAAG G UCAUACAC	12626	GUGAUUGA GCCGAAAGGCGAGUGAGGUCU	CUUGGAUG	31001
3133	7897	UCCGACCG G UUCGAGAA	12627	UUCUCGAA GCCGAAAGGCGAGUGAGGUCU	CGGUCGGA	31002
3148	7882	AAACCUCC G UUCGACCA	12628	UGGUCGAA GCCGAAAGGCGAGUGAGGUCU	GGAGGUUU	31003
3157	7873	UUCGACCA G CCAUCUCA	12629	UGAGAUGG GCCGAAAGGCGAGUGAGGUCU	UGGUCGAA	31004
3166	7864	CCAUCUCA G UUUUGCUG	12630	CAGCAAAA GCCGAAAGGCGAGUGAGGUCU	UGAGAUGG	31005
3171	7859	UCAGUUUU G CUGUGCCC	12631	GGGCACAG GCCGAAAGGCGAGUGAGGUCU	AAAACUGA	31006
3174	7856	GUUUUGCU G UGCCCCUA	12632	UAGGGGCA GCCGAAAGGCGAGUGAGGUCU	AGCAAAAC	31007
3176	7854	UUUGCUGU G CCCUAGA	12633	UCUAGGGG GCCGAAAGGCGAGUGAGGUCU	ACAGCAAA	31008
3193	7837	GACUUGAU G CCCUCCAG	12634	CUGGAGGG GCCGAAAGGCGAGUGAGGUCU	AUCCAGUC	31009
3201	7829	GCCCUCCA G UGACAUUG	12635	CAAUUGCA GCCGAAAGGCGAGUGAGGUCU	UGGAGGGC	31010
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GCCGAAAGGCGAGUGAGGUCU	AAUGUCAC	31011
3222	7808	CUUUCCUG G CGUGUUUU	12637	AAACACAG GCCGAAAGGCGAGUGAGGUCU	CAGGAAAG	31012
3224	7806	UUCUUGGC G UGUUUUGC	12638	GCAAAACA GCCGAAAGGCGAGUGAGGUCU	GCCAGGAA	31013
3226	7804	CCUGGCGU G UUUUGCCG	12639	CGGCAAAA GCCGAAAGGCGAGUGAGGUCU	ACGCCAGG	31014

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3231	7799	CGUGUUUU G	CCGCUGAG	12640	CUCAGCGG	GCCGAAAGGCGAGUGAGGUCU	AAAACACG	31015
3234	7796	GUUUUGCC G	CUGAGCGA	12641	UCGCUCAG	GCCGAAAGGCGAGUGAGGUCU	GGCAAAAC	31016
3239	7791	GCCGCUGA G	CGAUUCGAC	12642	GUUGAUUG	GCCGAAAGGCGAGUGAGGUCU	UCAGCGCG	31017
3258	7772	CGAUGAUG G	CCUCUUUG	12643	CAAAGAGG	GCCGAAAGGCGAGUGAGGUCU	CAUCAUCG	31018
3266	7764	GCCUCUUU G	CGGUACCU	12644	AGGUACCG	GCCGAAAGGCGAGUGAGGUCU	AAAGAGGC	31019
3269	7761	UCUUUGCG G	UACCUAGU	12645	ACTUAGGUA	GCCGAAAGGCGAGUGAGGUCU	CGCAAAGA	31020
3276	7754	GGUACCUA G	UGAACUCU	12646	AGAGUUCG	GCCGAAAGGCGAGUGAGGUCU	UAGGUACC	31021
3291	7739	CUUCUUUU G	UCAUCUGG	12647	CCAGAUUA	GCCGAAAGGCGAGUGAGGUCU	AAAAGAAG	31022
3299	7731	GUCAUCUG G	UUGAGUCU	12648	AGACUCAA	GCCGAAAGGCGAGUGAGGUCU	CAGAUGAC	31023
3304	7726	CUGGUUGA G	UCUUUUCU	12649	AAGAAAGA	GCCGAAAGGCGAGUGAGGUCU	UCAACCAG	31024
3330	7700	CUCCCAAG G	UGCGUCCU	12650	AGGACGCA	GCCGAAAGGCGAGUGAGGUCU	CUUGGGAG	31025
3332	7698	CCCAAGGU G	CGUCCUUU	12651	AAAGGAGG	GCCGAAAGGCGAGUGAGGUCU	ACCUUGGG	31026
3334	7696	CAAGGUGC G	UCCUUUUG	12652	CAAAAGGA	GCCGAAAGGCGAGUGAGGUCU	GCACCUUG	31027
3342	7698	GUCCUUUU G	CCCCACCU	12653	AGGUGGGG	GCCGAAAGGCGAGUGAGGUCU	AAAAGGAC	31028
3350	7672	UCUUUUUA G	UCCUGGUU	12654	AACCAGGA	GCCGAAAGGCGAGUGAGGUCU	UAAAAGA	31029
3364	7666	UAGUCCUG G	UUUUUCCA	12655	UGGAAAAA	GCCGAAAGGCGAGUGAGGUCU	CAGGACUA	31030
3374	7656	UUUUCCAU G	UUCUUUAU	12656	AUAAAGAA	GCCGAAAGGCGAGUGAGGUCU	AUGGAAAA	31031
3385	7645	CUUUUAUGA G	UGUCCAUG	12657	CAUGGACA	GCCGAAAGGCGAGUGAGGUCU	UCAUAAAG	31032
3387	7643	UUUAUGAGU G	UCCAUGUU	12658	AACAUGGA	GCCGAAAGGCGAGUGAGGUCU	ACUCAUAA	31033
3393	7637	GUGUCCAU G	UUAUGGAU	12659	AUCCAUAA	GCCGAAAGGCGAGUGAGGUCU	AUGGACAC	31034
3424	7606	ACCCCCAC G	CAUGAUGU	12660	ACAUCAUG	GCCGAAAGGCGAGUGAGGUCU	GUUGGGGU	31035
3431	7599	CGCAUGAU G	UGGCAGAG	12661	CUCUGCCA	GCCGAAAGGCGAGUGAGGUCU	AUCAUGCG	31036
3434	7596	AUGAUGUG G	CAGAGUCC	12662	GGACUCUG	GCCGAAAGGCGAGUGAGGUCU	CACAUCAU	31037
3439	7591	GUGGCAGA G	UCCGAUGG	12663	CCAUCGGA	GCCGAAAGGCGAGUGAGGUCU	UCUGCCAC	31038
3447	7583	GUCCGAGG G	CAGUUGUU	12664	AACAACUG	GCCGAAAGGCGAGUGAGGUCU	CAUCGGAC	31039
3450	7580	CGAUGGCA G	UUGUGUGG	12665	CGCAACAA	GCCGAAAGGCGAGUGAGGUCU	UGCCAUCC	31040
3453	7577	UGGCAGUU G	UUGCGUUC	12666	GAACGCAA	GCCGAAAGGCGAGUGAGGUCU	AACUGCCA	31041
3456	7574	CAGUUGUU G	CGUUCCAA	12667	UUGGAACG	GCCGAAAGGCGAGUGAGGUCU	AACAACUG	31042
3458	7572	GUUGUUGC G	UUCCAAAC	12668	GUUUGGAA	GCCGAAAGGCGAGUGAGGUCU	GCAACAAAC	31043
3470	7560	CAACACAG G	CUUGCUCC	12669	GGAGCAAG	GCCGAAAGGCGAGUGAGGUCU	UCUGUUUG	31044
3474	7556	CAGAGCUU G	CUCCAUUC	12670	GAAUUGAG	GCCGAAAGGCGAGUGAGGUCU	AAGCUUUG	31045
3490	7540	CUCCCAAA G	CGUCACCG	12671	CGUGAGCG	GCCGAAAGGCGAGUGAGGUCU	UUUGGGAG	31046
3492	7538	CCCAAAGC G	UCACCGCU	12672	AGCGGUGA	GCCGAAAGGCGAGUGAGGUCU	GCUUUGGG	31047
3498	7532	GCGUACCC G	CUGCGGCC	12673	GGCCGCGG	GCCGAAAGGCGAGUGAGGUCU	GGUGACGC	31048
3501	7529	UCACCGCU G	CGGCGGUG	12674	CACGGCCG	GCCGAAAGGCGAGUGAGGUCU	AGCGGUGA	31049
3504	7526	CCGUGUGG G	CCGUGAUC	12675	GAUCACCG	GCCGAAAGGCGAGUGAGGUCU	CGCAGCGG	31050
3507	7523	CUGCGGCC G	UGAUCAAA	12676	UUUGAUCA	GCCGAAAGGCGAGUGAGGUCU	GGCCGCAG	31051
3522	7508	AAAUUCCG G	CUUCUCGU	12677	ACCAGAAAG	GCCGAAAGGCGAGUGAGGUCU	CGGAUUUU	31052
3529	7501	GGCUUCUC G	UACUGUCU	12678	AGACAGUA	GCCGAAAGGCGAGUGAGGUCU	GAGAAGCC	31053
3534	7496	CUCGUACU G	UCUUCACA	12679	UGUGAAGA	GCCGAAAGGCGAGUGAGGUCU	AGUACGAG	31054
3548	7482	ACAGACGG G	UUCACUAC	12680	GUAGUGAA	GCCGAAAGGCGAGUGAGGUCU	CCGUCUGU	31055
3561	7469	CUACUACU G	CAGCUAGA	12681	UCUAGCUG	GCCGAAAGGCGAGUGAGGUCU	AGUAGUAG	31056
3564	7456	CUACUGCA G	CUAGAGAC	12682	GUCUCUAG	GCCGAAAGGCGAGUGAGGUCU	UGCAGUAG	31057
3583	7447	CAAGAUCA G	CAUGAUUC	12683	AGAUAUCG	GCCGAAAGGCGAGUGAGGUCU	UGAUCUUG	31058
3592	7438	CAUGAUUC G	UCCAACUU	12684	AAGUUGGA	GCCGAAAGGCGAGUGAGGUCU	AGAUAUCG	31059
3607	7423	UUUCUUUC G	CAUGAUGG	12685	CCAUAUCG	GCCGAAAGGCGAGUGAGGUCU	AGAAGAAA	31060
3616	7414	CAUGAUGG G	UGUGGUGC	12686	GCACCACA	GCCGAAAGGCGAGUGAGGUCU	CCAUAUCG	31061
3618	7412	UGAUGGGU G	UGGUGGCG	12687	GCGCACCA	GCCGAAAGGCGAGUGAGGUCU	ACCCAUCA	31062
3621	7409	UGGUGUGG G	UGCGUCUC	12688	AGAGCGCA	GCCGAAAGGCGAGUGAGGUCU	CACACCCA	31063
3623	7407	GGUGUGGU G	CGUCUCAA	12689	UUAGAGCG	GCCGAAAGGCGAGUGAGGUCU	ACCACACC	31064
3625	7405	UGUGGUGC G	CUCUAAUU	12690	AAUUAAGG	GCCGAAAGGCGAGUGAGGUCU	GCACCACA	31065
3641	7389	UCUGGGAC G	UCCGUGGC	12691	GCCAACGA	GCCGAAAGGCGAGUGAGGUCU	GUCCACAG	31066
3645	7385	GGACGUCC G	UGGCCACG	12692	CGUGGCCA	GCCGAAAGGCGAGUGAGGUCU	GGACGUCC	31067
3648	7382	CGUCCGUG G	CCACGAUG	12693	CAUCGUGG	GCCGAAAGGCGAGUGAGGUCU	CACGACCG	31068
3656	7374	GCCACGAU G	CCAUCAC	12694	GUGGAUGG	GCCGAAAGGCGAGUGAGGUCU	AUCGUGGC	31069
3669	7351	CCACUACA G	CGUUCUUC	12695	GAAGAACG	GCCGAAAGGCGAGUGAGGUCU	UGUAGUGG	31070
3671	7359	ACUACAGC G	UUCUUCAU	12696	AUGAAGAA	GCCGAAAGGCGAGUGAGGUCU	GCUGUAGU	31071
3687	7343	UGAUUCCG G	CCGUCGUC	12697	GACAGCGG	GCCGAAAGGCGAGUGAGGUCU	CGGAUUA	31072
3690	7340	UUCGCGCC G	CUGUCCGC	12698	GCGGACAG	GCCGAAAGGCGAGUGAGGUCU	GGCCGGA	31073
3693	7337	CGGCCGCU G	UCCGCCCG	12699	GCGGCGGA	GCCGAAAGGCGAGUGAGGUCU	AGCGGCGG	31074
3697	7333	CGCUGUCC G	CCGCUUGG	12700	CCCAGCGG	GCCGAAAGGCGAGUGAGGUCU	GGACAGCG	31075
3700	7330	UGUCCGCC G	CUGGGCUG	12701	CAGCCGAG	GCCGAAAGGCGAGUGAGGUCU	GGCGGACA	31076

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3705	7325	GCGCGUGG G CUGAGCGC	12702	GCGCUCAG GCCGAAAGGCGAGUGAGGUCU	CCAGCGGC	31077
3710	7320	UGGGCUGA G CGCADUGC	12703	GCAAUGCG GCCGAAAGGCGAGUGAGGUCU	UCAGCCCA	31078
3712	7318	GGCUGAGC G CAUUGCCU	12704	AGGCAUUG GCCGAAAGGCGAGUGAGGUCU	GCUCAGCC	31079
3717	7313	AGCGCAU G CCUCAGCU	12705	AGCUGAGG GCCGAAAGGCGAGUGAGGUCU	AAUGCGCU	31080
3723	7307	UUGCCUCA G CUUGCCAA	12706	UUGGCAAG GCCGAAAGGCGAGUGAGGUCU	UGAGGCAA	31081
3727	7303	CUCAGCUU G CCAACCGG	12707	CCGGUUGG GCCGAAAGGCGAGUGAGGUCU	AAGCUGAG	31082
3743	7287	GGAACCAU G UAGGCAUA	12708	UAUGCCUA GCCGAAAGGCGAGUGAGGUCU	AUGGUUCC	31083
3747	7283	CCAUGUAG G CAUAGUGG	12709	CCACUADG GCCGAAAGGCGAGUGAGGUCU	CUACAUGG	31084
3752	7278	UAGGCAUA G UGGCAAAA	12710	UUUUGCCA GCCGAAAGGCGAGUGAGGUCU	UAUGCCUA	31085
3755	7275	GCAUAGUG G CAAAAAAG	12711	CUUUUUG GCCGAAAGGCGAGUGAGGUCU	CACUAUGC	31086
3766	7264	AAAAAGGA G UGUUGCCG	12712	CGGCAACA GCCGAAAGGCGAGUGAGGUCU	UCCUUUUU	31087
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GCCGAAAGGCGAGUGAGGUCU	ACUCCUUU	31088
3771	7259	GGAGUGUU G CCGCUGUU	12714	AACAGCGG GCCGAAAGGCGAGUGAGGUCU	AACACUCC	31089
3774	7256	GUGUUGCC G CUGUUAAC	12715	GGUAACAG GCCGAAAGGCGAGUGAGGUCU	GGCAACAC	31090
3777	7253	UUGCCGCU G UUACCGUA	12716	UACGGUAA GCCGAAAGGCGAGUGAGGUCU	AGCGGCAA	31091
3783	7247	CUGUUAAC G UAACGGUG	12717	CACGGUUA GCCGAAAGGCGAGUGAGGUCU	GGUAACAG	31092
3789	7241	CCGUAAAG G UGAGGGUG	12718	CACCCUCA GCCGAAAGGCGAGUGAGGUCU	CGUUAACG	31093
3795	7235	CGGUGAGG G UGACUUGU	12719	ACAAGUCA GCCGAAAGGCGAGUGAGGUCU	CCUCACCG	31094
3802	7228	GGUGACUU G UCCCCAGC	12720	GCUGGGGA GCCGAAAGGCGAGUGAGGUCU	AAGUCACC	31095
3809	7221	UGUCCCCA G CAUCCGGC	12721	GCCGGAUG GCCGAAAGGCGAGUGAGGUCU	UGGGGACA	31096
3816	7214	AGCAUCCG G CUGCUAGC	12722	GCUAGCAG GCCGAAAGGCGAGUGAGGUCU	CGGAUGCU	31097
3819	7211	AUCCGGCU G CUAGCAGG	12723	CGUCUAG GCCGAAAGGCGAGUGAGGUCU	ACGCCGAU	31098
3823	7207	GGCUGCUA G CAGGAGAG	12724	CUCUCCUG GCCGAAAGGCGAGUGAGGUCU	UAGCAGCC	31099
3831	7199	GCAGGAGA G CCGACACU	12725	AGUGUCGG GCCGAAAGGCGAGUGAGGUCU	UCUCCUGC	31100
3860	7170	AAGGGGAA G CCUCGCGC	12726	GCGCGAGG GCCGAAAGGCGAGUGAGGUCU	UCCCCUUU	31101
3865	7165	GAAGCCUC G CGCGAGUG	12727	CACUCGGG GCCGAAAGGCGAGUGAGGUCU	GAGGCUUC	31102
3867	7163	AGCCUCGC G CGAGUGUG	12728	CACACUCG GCCGAAAGGCGAGUGAGGUCU	GCGAGGCU	31103
3871	7159	UCGCGCGA G UGUGAAUA	12729	UAUUCACA GCCGAAAGGCGAGUGAGGUCU	UCGCGCGA	31104
3873	7157	GCGCGAGU G UGAAUAGU	12730	ACUUAUCA GCCGAAAGGCGAGUGAGGUCU	ACUCGGCC	31105
3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGUGCA GCCGAAAGGCGAGUGAGGUCU	UAUUCACA	31106
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGUG GCCGAAAGGCGAGUGAGGUCU	ACUUAUCA	31107
3888	7142	GUGCACUU G CCUGAACG	12733	CGUUCAGG GCCGAAAGGCGAGUGAGGUCU	AAGUGCAC	31108
3896	7134	GCCUGAAC G UUAUUGA	12734	UCAUAAA GCCGAAAGGCGAGUGAGGUCU	GUUCAGGC	31109
3906	7124	UUAUUGAG G UCAAUAGG	12735	CGCAUUGA GCCGAAAGGCGAGUGAGGUCU	CGCAAUAA	31110
3915	7115	UCAUUGAG G UGUUGAUG	12736	CAUCAACA GCCGAAAGGCGAGUGAGGUCU	CUCAUUGA	31111
3917	7113	AAUGAGGU G UUGAUGUA	12737	UACAUCAA GCCGAAAGGCGAGUGAGGUCU	ACCUCAU	31112
3923	7107	GUGUUGAU G UAAUCUGA	12738	UCAGAUA GCCGAAAGGCGAGUGAGGUCU	AUCAACAC	31113
3933	7097	AAUCUGAC G UGAUCAA	12739	UUUGAUCA GCCGAAAGGCGAGUGAGGUCU	GUCAUAU	31114
3943	7087	GAUCAAU G CUUUAAGC	12740	UGCUAAAG GCCGAAAGGCGAGUGAGGUCU	AUUUGAUC	31115
3949	7081	AUGCUUUA G CAGUGGAG	12741	CUCCACUG GCCGAAAGGCGAGUGAGGUCU	UAAAGCAU	31116
3952	7078	CUUUAAGC G UGGAGUGA	12742	UCACUCCA GCCGAAAGGCGAGUGAGGUCU	UGCUAAG	31117
3957	7073	GCAGUGGA G UGAGGACC	12743	GGUCCUCA GCCGAAAGGCGAGUGAGGUCU	UCCACUGC	31118
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GCCGAAAGGCGAGUGAGGUCU	GGUCCUCA	31119
3969	7061	GGACCGCU G UUGUCACA	12745	UGUGACAA GCCGAAAGGCGAGUGAGGUCU	AGCGGUCC	31120
3972	7058	CCGCUUGU G UCACAGCG	12746	CGUUGUA GCCGAAAGGCGAGUGAGGUCU	AACAGCGG	31121
3978	7052	UUGUCACA G CGUACAGU	12747	ACUGUACG GCCGAAAGGCGAGUGAGGUCU	UGUGACAA	31122
3980	7050	GUACACAG G UACAGUGA	12748	UCACUGUA GCCGAAAGGCGAGUGAGGUCU	GCUGUGAC	31123
3985	7045	AGCGUACA G UGACCAGG	12749	CCUGGUCA GCCGAAAGGCGAGUGAGGUCU	UGUACGCU	31124
3993	7037	GUGACCAG G CUGUUGCC	12750	GGCAACAG GCCGAAAGGCGAGUGAGGUCU	CUGGUAC	31125
3996	7034	ACCAGGCU G UUGCCGGC	12751	GCCGGCAA GCCGAAAGGCGAGUGAGGUCU	AGCCUGGU	31126
3999	7031	AGGCUGUU G CCGGCCUC	12752	GAGGCCGG GCCGAAAGGCGAGUGAGGUCU	AACAGCCU	31127
4003	7027	UGUUGCCG G CCUCAAGU	12753	ACUUGAGG GCCGAAAGGCGAGUGAGGUCU	CGCAACA	31128
4010	7020	GGCCUCA G UCCAAAAG	12754	CUUUUGGA GCCGAAAGGCGAGUGAGGUCU	UUGAGGCC	31129
4031	6999	UCUCCAU G CUGAAAUU	12755	AAUUCAG GCCGAAAGGCGAGUGAGGUCU	AUGGGAGA	31130
4060	6970	AAUUCUUU G CCCAAACA	12756	UGUUUGGG GCCGAAAGGCGAGUGAGGUCU	AAAGAAUU	31131
4073	6957	AACAAACU G CUUAUGUC	12757	GACAUAA GCCGAAAGGCGAGUGAGGUCU	AGUUUGUU	31132
4079	6951	UGCUUAU G UCACUCU	12758	AAGAGUGA GCCGAAAGGCGAGUGAGGUCU	AUAAGCAG	31133
4089	6941	CACUCUUG G UCUUAUCU	12759	AGUAUAGA GCCGAAAGGCGAGUGAGGUCU	CAAGAUUG	31134
4099	6931	CUUAUCUA G CCAACCCA	12760	UGGUUGG GCCGAAAGGCGAGUGAGGUCU	UAGAUAG	31135
4112	6918	CCCAUCUC G UUGGCUUC	12761	GCAGCCAA GCCGAAAGGCGAGUGAGGUCU	GAGAUGGG	31136
4116	6914	UCUCGUUG G CUGCCACU	12762	AGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CAACGAGA	31137
4119	6911	CGUUGGCU G CCACUGCG	12763	CGCAGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCAACG	31138

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4125	6905	CUGCCACU G	CGCUCACA	12764	UGUGAGCG	GCCGAAAGGCGAGUGAGGUCU	AGUGGCAG	31139
4127	6903	GCCACUGC G	CUCACAAG	12765	CUUGUGAG	GCCGAAAGGCGAGUGAGGUCU	GCAGUGGC	31140
4137	6893	UCACAAGG G	UCAUGACA	12766	UGUCAUGA	GCCGAAAGGCGAGUGAGGUCU	CCUUGUGA	31141
4161	6869	GGAACACG G	CUAGCUGG	12767	CCAGCUAG	GCCGAAAGGCGAGUGAGGUCU	CGUGUUC	31142
4165	6865	CACGGCUA G	CUGGUUGU	12768	ACAACCAG	GCCGAAAGGCGAGUGAGGUCU	UAGCCGUG	31143
4169	6861	GCUAGCUG G	UUGUCUGU	12769	ACAGACAA	GCCGAAAGGCGAGUGAGGUCU	CAGCUAGC	31144
4172	6858	AGCUGGUT G	UCUGUCUG	12770	CAGACAGA	GCCGAAAGGCGAGUGAGGUCU	AACCAGCU	31145
4176	6854	GGUUGUCU G	UCUGCGAA	12771	UUCGCAGA	GCCGAAAGGCGAGUGAGGUCU	AGACAACC	31146
4180	6850	GUUGUCU G	CGAACGUU	12772	AACGUUCG	GCCGAAAGGCGAGUGAGGUCU	AGACAGAC	31147
4186	6844	CUGCGAAC G	UUGCUUCU	12773	AGAAGCAA	GCCGAAAGGCGAGUGAGGUCU	GUUCGCAG	31148
4189	6841	CGAACGUU G	CUUCUCUG	12774	CAGAGAA	GCCGAAAGGCGAGUGAGGUCU	AACGUUCG	31149
4198	6832	CUUCUCUG G	CUCAGGAA	12775	UUCUGAG	GCCGAAAGGCGAGUGAGGUCU	UAGGAAAG	31150
4210	6820	AGGAAUUA G	CACAAUCA	12776	UGAUUGUG	GCCGAAAGGCGAGUGAGGUCU	UAAUUCU	31151
4234	6796	AAGGGAGA G	CAGCAACA	12777	UGUUGCUG	GCCGAAAGGCGAGUGAGGUCU	UCUCCCU	31152
4237	6793	GGAGAGCA G	CAACAUUC	12778	GAAUGUUG	GCCGAAAGGCGAGUGAGGUCU	UGCUCUCC	31153
4248	6782	ACAUUCCG G	CGAUUCU	12779	GAAGAUUC	GCCGAAAGGCGAGUGAGGUCU	CGGAUUG	31154
4257	6773	CGAUUCU G	UUCUGGGA	12780	UCCAGGAA	GCCGAAAGGCGAGUGAGGUCU	GAAGAUUC	31155
4272	6758	GAACUUC G	CCAUCCAA	12781	UUGGAUGG	GCCGAAAGGCGAGUGAGGUCU	UGAAGUUC	31156
4290	6740	AGAAAAAG G	UCGCGACU	12782	AGUCGCGA	GCCGAAAGGCGAGUGAGGUCU	CUUUUCU	31157
4293	6737	AAAAGGUC G	CGACUCCC	12783	GGGAGUCG	GCCGAAAGGCGAGUGAGGUCU	GACCUUU	31158
4308	6722	CCAAGACA G	CGCCUCCC	12784	GGGAGGCG	GCCGAAAGGCGAGUGAGGUCU	UGUCUUGG	31159
4310	6720	AAGACAGC G	CCUCCCAA	12785	UUGGGAGG	GCCGAAAGGCGAGUGAGGUCU	GCUGUCUU	31160
4334	6696	UUUCCAAU G	CCCUUCCG	12786	CGGAAGGG	GCCGAAAGGCGAGUGAGGUCU	AUUGGAA	31161
4342	6688	GCCCUUCC G	CUGCAUGA	12787	UCAUGCAG	GCCGAAAGGCGAGUGAGGUCU	GGAAGGGC	31162
4345	6685	CUUCCGCU G	CAUGAGGA	12788	UCCUCAUG	GCCGAAAGGCGAGUGAGGUCU	AGCGGAAG	31163
4371	6659	CUCCCAUG G	UCAUCACA	12789	UGUGAUGA	GCCGAAAGGCGAGUGAGGUCU	CAUGGGAG	31164
4389	6641	UCAUAUAG G	CAAUCAAG	12790	CUUGAUUG	GCCGAAAGGCGAGUGAGGUCU	CUUAUUGA	31165
4398	6632	CAAUCAAG G	CAAUUGUC	12791	GACAAUUG	GCCGAAAGGCGAGUGAGGUCU	CUUGAUUG	31166
4404	6626	AGGCAAUU G	UCUGAAGA	12792	UCUUCAGA	GCCGAAAGGCGAGUGAGGUCU	AAUUGCCU	31167
4413	6617	UCUGAAGA G	CAUCUGGC	12793	GCCGAAAGGCGAGUGAGGUCU	UCUUCAGA	31168	
4420	6610	AGCAUCUG G	CAGUUCU	12794	AGGAACUG	GCCGAAAGGCGAGUGAGGUCU	CAGAUUCU	31169
4423	6607	AUCUGGCA G	UUCUCCA	12795	UGGAGGAA	GCCGAAAGGCGAGUGAGGUCU	UGCCAGAU	31170
4434	6596	CCUCCAGG G	CAUUCUG	12796	CAGAAUGG	GCCGAAAGGCGAGUGAGGUCU	CCUGGAGG	31171
4442	6588	GCCAUUCU G	UGAGCUCU	12797	AGAGCUCA	GCCGAAAGGCGAGUGAGGUCU	AGAAUGGC	31172
4446	6584	UUCUGUGA G	CUCUCCU	12798	AGGAAGAG	GCCGAAAGGCGAGUGAGGUCU	UCACAGAA	31173
4464	6566	CUUUCUCU G	CAGUGGCC	12799	GGCCACUG	GCCGAAAGGCGAGUGAGGUCU	AGAGAAAG	31174
4467	6563	UCUCUGCA G	UGGCCACA	12800	UGUGGCCA	GCCGAAAGGCGAGUGAGGUCU	UGCAGAGA	31175
4470	6560	CUGCAGUG G	CCACAACG	12801	CGUUGUGG	GCCGAAAGGCGAGUGAGGUCU	CACUGCAG	31176
4478	6552	GCCACAAC G	UACAUGGU	12802	ACCAUGUA	GCCGAAAGGCGAGUGAGGUCU	GUUGUGGC	31177
4485	6545	CGUACAUG G	UGUCAAGU	12803	ACUUGACA	GCCGAAAGGCGAGUGAGGUCU	CAUGUACG	31178
4487	6543	UACAUGGU G	UCAAGUGC	12804	GCACUUGA	GCCGAAAGGCGAGUGAGGUCU	ACCAUGUA	31179
4492	6538	GGUGUCA G	UGCUUCCC	12805	GGGAAGCA	GCCGAAAGGCGAGUGAGGUCU	UUGACACC	31180
4494	6536	UGUCAAGU G	CUUCCCAU	12806	AUGGGAAG	GCCGAAAGGCGAGUGAGGUCU	ACUUGACA	31181
4503	6527	CUUCCCAU G	CUUCCCC	12807	GGGGAAGA	GCCGAAAGGCGAGUGAGGUCU	AUGGGAAG	31182
4517	6513	CCCAUGAA G	UGCUCAGG	12808	CCUGAGCA	GCCGAAAGGCGAGUGAGGUCU	UUCUUGGG	31183
4519	6511	CAUGAAGU G	CUCAGGCA	12809	UGCCUGAG	GCCGAAAGGCGAGUGAGGUCU	ACUUCUAG	31184
4525	6505	GUGCUCAG G	CAUCUUC	12810	GAAAGAUG	GCCGAAAGGCGAGUGAGGUCU	CUGAGCAC	31185
4549	6481	CUCAAUGA G	CCCUAUCU	12811	AGAUAGGG	GCCGAAAGGCGAGUGAGGUCU	UCAUUGAG	31186
4564	6466	CUGAGAAC G	UUUCCCG	12812	CGGGAAAA	GCCGAAAGGCGAGUGAGGUCU	GUUCUCAG	31187
4575	6455	UUCCCGAG G	CGAAGUCC	12813	GGACUUCG	GCCGAAAGGCGAGUGAGGUCU	CUCCGGAA	31188
4580	6450	GAGGCGAA G	UCCUUGAA	12814	UUCAGGGA	GCCGAAAGGCGAGUGAGGUCU	UUCGCCUC	31189
4590	6440	CCUUGAAC G	CCUUUAGU	12815	ACUAAAGG	GCCGAAAGGCGAGUGAGGUCU	GUUCAAGG	31190
4597	6433	CGCCUUUA G	UGCCUGGU	12816	ACCAGGCA	GCCGAAAGGCGAGUGAGGUCU	UAAAGGCG	31191
4599	6431	CCUUUAGU G	CCUGGUGA	12817	UCACCAGG	GCCGAAAGGCGAGUGAGGUCU	ACUAAAGG	31192
4604	6426	AGUGCCUG G	UGAUCCGA	12818	UCGGAUCA	GCCGAAAGGCGAGUGAGGUCU	CAGGCACU	31193
4613	6417	UGAUCCGA G	UACACCCU	12819	AGGGUGUA	GCCGAAAGGCGAGUGAGGUCU	UCGGAUCA	31194
4623	6407	ACACCCUG G	CGUCAUUC	12820	GAUUGACG	GCCGAAAGGCGAGUGAGGUCU	CAGGGUGU	31195
4625	6405	ACCCUGGC G	UCAAUCCA	12821	UGGAUUGA	GCCGAAAGGCGAGUGAGGUCU	GCCAGGGU	31196
4634	6396	UCAAUCCA G	CGCGCCU	12822	AGGCCGCG	GCCGAAAGGCGAGUGAGGUCU	UGGAUUGA	31197
4636	6394	AAUCCAGC G	CGGCCUCA	12823	UAGGCCCG	GCCGAAAGGCGAGUGAGGUCU	GCUGGAUU	31198
4639	6391	CCAGCGCG G	CCUCAGAA	12824	UUCUGAGG	GCCGAAAGGCGAGUGAGGUCU	CGCGCUGG	31199
4663	6367	UUCACCAA G	CUUCUGUA	12825	UCACGAAG	GCCGAAAGGCGAGUGAGGUCU	UUGGUGAA	31200

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4668	6362	CAAGCUUC G UGAUGACU	12826	AGUCAUCA GCCGAAAGGCGAGUGAGGUCU	GAAGCUUG	31201
4685	6345	UCCACUUC G UUGUUGUC	12827	GACAACAA GCCGAAAGGCGAGUGAGGUCU	GAAGUGGA	31202
4688	6342	ACUUCGUU G UUGUCUUC	12828	GAAACAA GCCGAAAGGCGAGUGAGGUCU	AACGAAGU	31203
4691	6339	UCGUUGUU G UCUCUCAA	12829	UUAGAAGA GCCGAAAGGCGAGUGAGGUCU	AACAACGA	31204
4704	6326	CUAAAAUU G UGUUUGUC	12830	GACAAACA GCCGAAAGGCGAGUGAGGUCU	AAUUUUAG	31205
4706	6324	AAAAUUGU G UUGUCCU	12831	AGGACAAA GCCGAAAGGCGAGUGAGGUCU	ACAAUUUU	31206
4710	6320	UUGUGUUU G UCCUAGGA	12832	UCCUAGGA GCCGAAAGGCGAGUGAGGUCU	AAACACAA	31207
4727	6303	CCAUCAAA G CACCACCU	12833	AGGUGGUG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGG	31208
4739	6291	CACCUCUG G UCGUGGUA	12834	UACCACGA GCCGAAAGGCGAGUGAGGUCU	CGAGAGGUG	31209
4742	6288	CUCCGGUC G UGGUAUGA	12835	UCAUACCA GCCGAAAGGCGAGUGAGGUCU	GACCCGAG	31210
4745	6285	CGGUCGUG G UAUGACAC	12836	GUGUCAUA GCCGAAAGGCGAGUGAGGUCU	CACGACCG	31211
4758	6272	ACACUCCA G CCGUGGCA	12837	UGCAGCGG GCCGAAAGGCGAGUGAGGUCU	UGGAGUGU	31212
4761	6269	CUCCAGCC G CUGCAACC	12838	GGUUGCAG GCCGAAAGGCGAGUGAGGUCU	GGCUGGAG	31213
4764	6266	CAGCCGCU G CAACCUUG	12839	CAAGGUUG GCCGAAAGGCGAGUGAGGUCU	AGCGGCUG	31214
4772	6258	GCAACCUU G UAAGCCAG	12840	CUGGCUUA GCCGAAAGGCGAGUGAGGUCU	AAGGUUGC	31215
4776	6254	CCUUGUAA G CCAGCCAA	12841	UUGGCUUG GCCGAAAGGCGAGUGAGGUCU	UUACAAGG	31216
4780	6250	GUAAGCCA G CCAAACUG	12842	CAGUUUUG GCCGAAAGGCGAGUGAGGUCU	UGGCUUAC	31217
4789	6241	CCAAACUG G CAGAUCUG	12843	CAGAUCUG GCCGAAAGGCGAGUGAGGUCU	CAGUUUGG	31218
4797	6233	GCAGAUCU G CAGUCCUC	12844	GAGGACUG GCCGAAAGGCGAGUGAGGUCU	AGAUCUGC	31219
4800	6230	GAUCUGCA G UCCUCAAC	12845	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	UGCAGAUC	31220
4810	6220	CCUCAACA G UCCAGAA	12846	UUCUGGAA GCCGAAAGGCGAGUGAGGUCU	UGUUGAGG	31221
4820	6210	UCCAGAAA G UUUUUUCU	12847	AGAAAAAA GCCGAAAGGCGAGUGAGGUCU	UUUCUGGA	31222
4843	6187	UCCUCUGA G CCGGUUUU	12848	AAUACCGG GCCGAAAGGCGAGUGAGGUCU	UCAGAGGA	31223
4847	6183	CUAGCCUG G UAUUCCCC	12849	GGGGAUAU GCCGAAAGGCGAGUGAGGUCU	CGGCUCAG	31224
4863	6167	CAUCCAUU G UAUUAUCC	12850	GGUAUAUA GCCGAAAGGCGAGUGAGGUCU	CAUGGAUG	31225
4879	6151	CUUCUCAC G CUCUGGUU	12851	AACCAGAG GCCGAAAGGCGAGUGAGGUCU	GUGAGAAG	31226
4885	6145	ACGCUCUG G UUGGUAGA	12852	UCUACCAA GCCGAAAGGCGAGUGAGGUCU	CAGAGCGU	31227
4889	6141	UCUGGUUG G UAGAUAUG	12853	CAAUUCUA GCCGAAAGGCGAGUGAGGUCU	CAACCAGA	31228
4899	6131	AGAAUUGA G CGAUACAU	12854	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU	UCAAUUCU	31229
4906	6124	AGCGAUCA G UCCGUUUG	12855	CAAAACGA GCCGAAAGGCGAGUGAGGUCU	UGAUUCGU	31230
4910	6120	AUCAGUCC G UUGGCAU	12856	AUGCCAAA GCCGAAAGGCGAGUGAGGUCU	GGACUGAU	31231
4915	6115	UCCGUUUG G CAUGUUGA	12857	UCAACAUG GCCGAAAGGCGAGUGAGGUCU	CAAACGGA	31232
4919	6111	UUUGGCAU G UUGAUGUU	12858	AACAUCAA GCCGAAAGGCGAGUGAGGUCU	AUGCCAAA	31233
4925	6105	AUGUUGAU G UUGUCCAG	12859	CUGGACAA GCCGAAAGGCGAGUGAGGUCU	AUCAACAU	31234
4928	6102	UUGAUGUU G UCCAGCAU	12860	AUGCUGGA GCCGAAAGGCGAGUGAGGUCU	AACAUCAA	31235
4933	6097	GUUGUCCA G CAUGAUUC	12861	GAUAUAUG GCCGAAAGGCGAGUGAGGUCU	UGACACAC	31236
4942	6088	CAUGAUUC G UGCCUCAG	12862	CUGAGGCA GCCGAAAGGCGAGUGAGGUCU	GAUAUAUG	31237
4944	6086	UGAUUCGU G CCUCAGUC	12863	GACUGAGG GCCGAAAGGCGAGUGAGGUCU	ACGAUUA	31238
4950	6080	GUCCUCA G UCCAAUGG	12864	CCAUUGGA GCCGAAAGGCGAGUGAGGUCU	UGAGGCAC	31239
4959	6071	UCCAAUGG G CGAAGUUC	12865	GAACUUCG GCCGAAAGGCGAGUGAGGUCU	CCAUUGGA	31240
4964	6066	UGGGCGAA G UUCGAGUC	12866	GACUCGAA GCCGAAAGGCGAGUGAGGUCU	UUCGCCCA	31241
4970	6060	AAGUUCUA G UCGUCUUC	12867	GAAGACGA GCCGAAAGGCGAGUGAGGUCU	GAACACAU	31242
4973	6057	UUCGAGUC G UCUCUAUU	12868	AAUGAAGA GCCGAAAGGCGAGUGAGGUCU	GACUCGAA	31243
4983	6047	CUUCAUUC G UGUGCCCC	12869	GGGGCACA GCCGAAAGGCGAGUGAGGUCU	GAUGAAG	31244
4985	6045	UCAUUCGU G UGCCCCC	12870	GGGGGGCA GCCGAAAGGCGAGUGAGGUCU	ACGAUUGA	31245
4987	6043	AUUCGUGU G CCCCCCAU	12871	AUGGGGGG GCCGAAAGGCGAGUGAGGUCU	ACACGAU	31246
5000	6030	CCAUAACA G UACUCAUC	12872	GAUGAGUA GCCGAAAGGCGAGUGAGGUCU	UGUUAUGG	31247
5017	6013	ACCAACUU G CGACGGAU	12873	AUCCGUUG GCCGAAAGGCGAGUGAGGUCU	AAGUUGGU	31248
5038	5992	ACCGAUAC G UCCACGUC	12874	GACGUGGA GCCGAAAGGCGAGUGAGGUCU	GUUACGGU	31249
5044	5986	ACGUCCAC G UCUCUGGG	12875	CCCAGAGA GCCGAAAGGCGAGUGAGGUCU	GUGGACGU	31250
5052	5978	GUCUCUGG G CGGCACUA	12876	UAGUGCCG GCCGAAAGGCGAGUGAGGUCU	CCAGAGAC	31251
5055	5975	UCUGGGCG G CACUAGCU	12877	AGCUAGUG GCCGAAAGGCGAGUGAGGUCU	CGCCAGA	31252
5061	5969	CGGCACUA G CUGCUGUC	12878	GACAGCAG GCCGAAAGGCGAGUGAGGUCU	UAGUGCCG	31253
5064	5966	CACUAGCU G CUGUCACU	12879	AGUGACAG GCCGAAAGGCGAGUGAGGUCU	AGCUAGUG	31254
5067	5963	UAGCUGCU G UCACUGCA	12880	UGCAGUGA GCCGAAAGGCGAGUGAGGUCU	AGCAGCUA	31255
5073	5957	CUGUCACU G CAGAUUGU	12881	ACCAUCUG GCCGAAAGGCGAGUGAGGUCU	AGUGACAG	31256
5080	5950	UGCAGAUG G UUCUCCCA	12882	UGGAGAGG GCCGAAAGGCGAGUGAGGUCU	CAUCUGCA	31257
5112	5918	CUCCUUUC G UUAUGAUG	12883	CAUCAUAA GCCGAAAGGCGAGUGAGGUCU	AGAAGGAG	31258
5121	5909	UUAUGAUG G UUGUUUUC	12884	GAACCCAA GCCGAAAGGCGAGUGAGGUCU	CAUCAUAA	31259
5125	5905	GAUGGUUG G UUCACAC	12885	GUGUGAAA GCCGAAAGGCGAGUGAGGUCU	CAACCAUC	31260
5141	5889	CUCUCCCG G CUGUCAAU	12886	AUUGACAG GCCGAAAGGCGAGUGAGGUCU	CGGAAGAG	31261
5144	5886	UUCGGGCU G UCAUUCAC	12887	GUGAUUGA GCCGAAAGGCGAGUGAGGUCU	AGCCGGA	31262

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5156	5874	AUCACCCU G CUCGCCU	12888	AAGGCGAG GCCGAAAGGCGAGUGAGGUCU	AGGGUGAU	31263
5160	5870	CCCGCUC G CCUGAAG	12889	CUUCAAGG GCCGAAAGGCGAGUGAGGUCU	GAGCAGGG	31264
5168	5862	GCCUUGAA G UUGCCCC	12890	GGGGCTAA GCCGAAAGGCGAGUGAGGUCU	UUCAGGC	31265
5172	5858	UGAAGUUA G CCCCCAU	12891	AAUGGGGG GCCGAAAGGCGAGUGAGGUCU	UAACUUA	31266
5189	5841	UCAGAUUA G UCUGUUGU	12892	ACAACAGA GCCGAAAGGCGAGUGAGGUCU	AUAUCUGA	31267
5193	5837	AUAUGUCU G UUGUGAUA	12893	UAUCACAA GCCGAAAGGCGAGUGAGGUCU	AGACAUUA	31268
5196	5834	UGUCUGUU G UGAUACA	12894	UGUUAUCA GCCGAAAGGCGAGUGAGGUCU	AACAGACA	31269
5207	5823	AUAACAAA G UCCCAAUC	12895	GAUUGGGA GCCGAAAGGCGAGUGAGGUCU	UUUGUUAU	31270
5219	5811	CAAUCAUC G UUCUUAUA	12896	UGUAAGAA GCCGAAAGGCGAGUGAGGUCU	GAUGAUUG	31271
5234	5796	CAUUGUGG G UACUCCGU	12897	ACGGAGUA GCCGAAAGGCGAGUGAGGUCU	CCAAAUG	31272
5241	5789	GGUACUCC G UCUCGUAC	12898	GUACGAGA GCCGAAAGGCGAGUGAGGUCU	GGAGUACC	31273
5246	5784	UCCGUCUC G UACGACUU	12899	AAGUCGUA GCCGAAAGGCGAGUGAGGUCU	GAGACGGA	31274
5258	5772	GACUUCUU G UUCAUUG	12900	CAUUGAA GCCGAAAGGCGAGUGAGGUCU	AGAAAGUC	31275
5283	5747	UCUUCUCA G CACGUUGU	12901	ACAACGUG GCCGAAAGGCGAGUGAGGUCU	UGGAAAGA	31276
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCCUACAA GCCGAAAGGCGAGUGAGGUCU	GUGCUGGA	31277
5290	5740	AGCACGUU G UAGGCAA	12903	UUUGCCUA GCCGAAAGGCGAGUGAGGUCU	AACUGUCU	31278
5294	5736	CGUUGUAG G CAAAGGGC	12904	GCCCUUUG GCCGAAAGGCGAGUGAGGUCU	CUACAACG	31279
5301	5729	GGCAAAGG G CAAUCUA	12905	UGAGAUUG GCCGAAAGGCGAGUGAGGUCU	CCUUGGCC	31280
5329	5701	GACACUAG G CACAAACC	12906	GGUUGUG GCCGAAAGGCGAGUGAGGUCU	CUAGUGUC	31281
5343	5687	ACCAAACC G UCUCCCG	12907	CGGGAAGA GCCGAAAGGCGAGUGAGGUCU	GGUUGGU	31282
5352	5678	UCUCCCG G UGUUUCU	12908	AGAUUACA GCCGAAAGGCGAGUGAGGUCU	CGGGAAGA	31283
5354	5676	UUCCCGGU G UAUUCUGU	12909	ACAGAUUA GCCGAAAGGCGAGUGAGGUCU	ACCGGGA	31284
5361	5669	UGUAUUCU G UGAUCCA	12910	AUGGAUCA GCCGAAAGGCGAGUGAGGUCU	AGAAUACA	31285
5372	5658	AUCCAUC G UAUCAGA	12911	UCUGGAUA GCCGAAAGGCGAGUGAGGUCU	GAAUGGAU	31286
5381	5649	UAUCCAGA G UUCAAGC	12912	GCUUGGAA GCCGAAAGGCGAGUGAGGUCU	UCUGGAUA	31287
5388	5642	AGUUCCAA G CUCGAUCC	12913	GGAUUCGAG GCCGAAAGGCGAGUGAGGUCU	UUGGAACU	31288
5406	5624	GGAUUCA G UCUGUAG	12914	CUUACAGA GCCGAAAGGCGAGUGAGGUCU	UGAGAUCC	31289
5410	5620	CUCAGUCU G UAGUCGG	12915	CCGACUUA GCCGAAAGGCGAGUGAGGUCU	AGACUGAG	31290
5414	5616	GUCUGUAA G UCGGAAU	12916	AUUUCCGA GCCGAAAGGCGAGUGAGGUCU	UUACAGAC	31291
5425	5605	GGAAUUG G UGAUUGG	12917	CCAUAUCA GCCGAAAGGCGAGUGAGGUCU	CAAUUCC	31292
5454	5576	GAUCUGAA G UGCCUGU	12918	ACCAGGCA GCCGAAAGGCGAGUGAGGUCU	UUCAGAU	31293
5456	5574	UCUGAGU G CCUGGUG	12919	CCACCAGG GCCGAAAGGCGAGUGAGGUCU	ACUUCAGA	31294
5461	5569	AGUGCCUG G UGGGUGG	12920	CCACCACA GCCGAAAGGCGAGUGAGGUCU	CAGGCACU	31295
5466	5564	CUGGUGG G UGGCUGU	12921	GACAGCCA GCCGAAAGGCGAGUGAGGUCU	CCCACCAG	31296
5469	5561	GUGGGUG G CUGUCAU	12922	CAUGACAG GCCGAAAGGCGAGUGAGGUCU	CACCCAC	31297
5472	5558	GGGUGGU G UCAUGAAU	12923	AUUCAGA GCCGAAAGGCGAGUGAGGUCU	AGCCACC	31298
5484	5546	UGAAUAU G CCGCGCC	12924	GCGGGCG GCCGAAAGGCGAGUGAGGUCU	AAUAUUA	31299
5487	5543	AUAUUGC G CCGCUCC	12925	GGAGGCG GCCGAAAGGCGAGUGAGGUCU	GGCAUAU	31300
5490	5540	UUGCCGC G CCUCCCU	12926	AGGGGAG GCCGAAAGGCGAGUGAGGUCU	GGCGCAA	31301
5500	5530	CUCCCUA G CUCGACU	12927	AGGUCGAG GCCGAAAGGCGAGUGAGGUCU	UAGGGGAG	31302
5511	5519	CGACCUU G UGGAAUUG	12928	CAUUCUA GCCGAAAGGCGAGUGAGGUCU	AAAGUCCG	31303
5519	5511	GUGGAAU G UAACCUCU	12929	AGAGUUA GCCGAAAGGCGAGUGAGGUCU	AUUUCCAC	31304
5529	5501	AACCUUU G CUGCAAUG	12930	CAUUGCAG GCCGAAAGGCGAGUGAGGUCU	AAGAGGU	31305
5532	5498	CUCUUGU G CAAUGCUA	12931	UAGCAUUG GCCGAAAGGCGAGUGAGGUCU	AGCAAGAG	31306
5537	5493	GCUGCAU G CUAGCUGG	12932	CCAGCUAG GCCGAAAGGCGAGUGAGGUCU	AUUGCAGC	31307
5541	5489	CAUUGCUA G CUGGGUCG	12933	CGACCAG GCCGAAAGGCGAGUGAGGUCU	UAGCAUUG	31308
5546	5484	CUAGCUGG G UCGGUGAA	12934	UUCACCGA GCCGAAAGGCGAGUGAGGUCU	CCAGCUAG	31309
5550	5480	UGGGUGG G UGAAUGA	12935	UCAUUAU GCCGAAAGGCGAGUGAGGUCU	CGACCAG	31310
5559	5471	UGAAUGA G CCUCAUCC	12936	GGAUAGG GCCGAAAGGCGAGUGAGGUCU	UCAUUAU	31311
5579	5451	ACGAACAG G UUGUAGUU	12937	AACUACAA GCCGAAAGGCGAGUGAGGUCU	CUGUUCGU	31312
5582	5448	AACAGGUU G UAGUCCG	12938	CGAACUA GCCGAAAGGCGAGUGAGGUCU	AACCUGUU	31313
5585	5445	AGGUUGUA G UUCGGCAC	12939	GUGCCGA GCCGAAAGGCGAGUGAGGUCU	UACAACCU	31314
5590	5440	GUAGUUG G CACCCUGU	12940	ACAGGUG GCCGAAAGGCGAGUGAGGUCU	CGAACTUAC	31315
5597	5433	GGCACCUU G UGAGGAGA	12941	UCUCCUA GCCGAAAGGCGAGUGAGGUCU	AGGGUGCC	31316
5611	5419	AGACAUCA G CCUGGGG	12942	CCACACAG GCCGAAAGGCGAGUGAGGUCU	UGAUGUCU	31317
5615	5415	AUCAGCCU G UGGGUGAG	12943	CUACCCA GCCGAAAGGCGAGUGAGGUCU	AGGCUAGU	31318
5619	5411	GCCUGUGG G UGAGGGUA	12944	UACCCUA GCCGAAAGGCGAGUGAGGUCU	CCACAGGC	31319
5625	5405	GGGUGAGG G UAGCAUGA	12945	UCAUGCUA GCCGAAAGGCGAGUGAGGUCU	CCUACCC	31320
5628	5402	UGAGGGUA G CAUGACAC	12946	GUGUCAUG GCCGAAAGGCGAGUGAGGUCU	UACCCUA	31321
5665	5365	UCCAUAU G UUCUGUG	12947	CCAGAGA GCCGAAAGGCGAGUGAGGUCU	AUAUGGA	31322
5674	5356	UUCUCUGG G CACUGCGG	12948	CCGAGUG GCCGAAAGGCGAGUGAGGUCU	CCAGAGAA	31323
5679	5351	UGGGCACTU G CGGAUGUC	12949	GACAUCCG GCCGAAAGGCGAGUGAGGUCU	AGUGCCCA	31324

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5685	5345	CUGCGGAU G UCUGGUAC	12950	GUACCAGA GCCGAAAGGCGAGUGAGGUUCU	AUCCGCAG	31325
5690	5340	GAUGUCUG G UACCGGAU	12951	AUCCGGUA GCCGAAAGGCGAGUGAGGUUCU	CAGACAUC	31326
5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACUG GCCGAAAGGCGAGUGAGGUUCU	CCAUCCGG	31327
5704	5326	GAUGGGCA G UCCUCUCA	12953	UGAGAGGA GCCGAAAGGCGAGUGAGGUUCU	UGCCCAUC	31328
5713	5317	UCCUCUCA G UGCUUCAG	12954	CUGAAGCA GCCGAAAGGCGAGUGAGGUUCU	UGAGAGGA	31329
5715	5315	CUCUCAGU G CUUCAGCC	12955	GGCUGAAG GCCGAAAGGCGAGUGAGGUUCU	ACUGAQAG	31330
5721	5309	GUGCUUCA G CCAUCUCA	12956	UGAGAUGG GCCGAAAGGCGAGUGAGGUUCU	UGAAGCAC	31331
5730	5300	CCAUCUCA G CAGCCACA	12957	UGUGGCVG GCCGAAAGGCGAGUGAGGUUCU	UGAGAUGG	31332
5733	5297	UCUCAGCA G CCACAACC	12958	GGUUGUGG GCCGAAAGGCGAGUGAGGUUCU	UGCUGAGA	31333
5745	5285	CAACCCUG G UUGGUGCU	12959	AGCACCAA GCCGAAAGGCGAGUGAGGUUCU	CAGGGUUG	31334
5749	5281	CCUGGUGU G UGCUAGCA	12960	UGCUGACA GCCGAAAGGCGAGUGAGGUUCU	CAACCAGG	31335
5751	5279	UGGUUGGU G CUAGCACG	12961	CGUGCUAG GCCGAAAGGCGAGUGAGGUUCU	ACCAACCA	31336
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGUG GCCGAAAGGCGAGUGAGGUUCU	UAGCACCA	31337
5760	5270	CUAGCACG G CUGUUCUC	12963	GAGAACAG GCCGAAAGGCGAGUGAGGUUCU	CGUGCUAG	31338
5763	5267	GCACGGCU G UUCUCAGU	12964	ACUGAGAA GCCGAAAGGCGAGUGAGGUUCU	AGCCGUGC	31339
5770	5260	UGUUCUCA G UCUCUCUG	12965	ACAGAAGA GCCGAAAGGCGAGUGAGGUUCU	UGAGAACA	31340
5777	5253	AGUCUUCU G UUUUAGGC	12966	GCCAUAAA GCCGAAAGGCGAGUGAGGUUCU	AGAAGACU	31341
5784	5246	UGUUUAUG G CCUCUUUG	12967	CAAAGAGG GCCGAAAGGCGAGUGAGGUUCU	CAUAAACA	31342
5800	5230	GAUGAUCU G UGGCAGAA	12968	UUCUGCCA GCCGAAAGGCGAGUGAGGUUCU	AGAUAUC	31343
5803	5227	GAUCUGUG G CAGAAUCC	12969	GAUAUCUG GCCGAAAGGCGAGUGAGGUUCU	CACAGAUC	31344
5817	5213	UCCUCUCU G UUUUACCG	12970	CGGUAAAA GCCGAAAGGCGAGUGAGGUUCU	AAGGAGGA	31345
5826	5204	UUUUACCG G CGCCGGGA	12971	UCCCGGGG GCCGAAAGGCGAGUGAGGUUCU	CGGUAAAA	31346
5828	5202	UUACCGGC G CCGGGAUG	12972	CAUCCCGG GCCGAAAGGCGAGUGAGGUUCU	GCCGUAUA	31347
5845	5185	GAGAUAUA G UACAGUGA	12973	UCACUGUA GCCGAAAGGCGAGUGAGGUUCU	UGGAUCUC	31348
5850	5180	CCAGUAUA G UGAUCUGU	12974	ACAGAUAUA GCCGAAAGGCGAGUGAGGUUCU	UGUACUGG	31349
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAAA GCCGAAAGGCGAGUGAGGUUCU	AGAUAACU	31350
5869	5161	UUUCCUCA G CAUCUCAG	12976	CUGAGAUG GCCGAAAGGCGAGUGAGGUUCU	UGAGGAAA	31351
5878	5152	CAUCUCAG G UUCGAAUC	12977	GAUUCGAA GCCGAAAGGCGAGUGAGGUUCU	CUGAGAUG	31352
5889	5141	CGAAUCCG G CUGGGAUU	12978	CAUCCCGG GCCGAAAGGCGAGUGAGGUUCU	CGGAUUCG	31353
5899	5131	UGGGAUUG G CUCAUCCA	12979	UGGAUGAG GCCGAAAGGCGAGUGAGGUUCU	CAAUCCCA	31354
5920	5110	UUCACCCU G CACUAUCG	12980	CGAUAGUG GCCGAAAGGCGAGUGAGGUUCU	AGGGUGAA	31355
5928	5102	GCACUAUC G CGCUUAUG	12981	CAUAAGCG GCCGAAAGGCGAGUGAGGUUCU	GAUAGUGC	31356
5930	5100	ACUAUCGC G CUUAUGUA	12982	UACUAUAG GCCGAAAGGCGAGUGAGGUUCU	GCGUAUGU	31357
5936	5094	GCGCUUAU G UAUGAGCC	12983	GGCUCUAU GCCGAAAGGCGAGUGAGGUUCU	AUAAGCGC	31358
5942	5088	AGUAUGA G CCGUUGGG	12984	CCCAACGG GCCGAAAGGCGAGUGAGGUUCU	UCAUAUAU	31359
5945	5085	UAUGAGCC G UUGGGCAU	12985	AUGCCCAA GCCGAAAGGCGAGUGAGGUUCU	GGCUCUAU	31360
5950	5080	GCCGUUGG G CAUUAUGA	12986	UCAUAUUG GCCGAAAGGCGAGUGAGGUUCU	CCAACGGC	31361
5966	5064	ACUCCAUU G CCAUAAAG	12987	CUUUAUGG GCCGAAAGGCGAGUGAGGUUCU	AAUGGAGU	31362
5974	5056	GCCAUAAA G CCCAAUA	12988	UGAUUGGG GCCGAAAGGCGAGUGAGGUUCU	UUUAUGGC	31363
5990	5040	ACAUCACC G UUUUUGUC	12989	GACAAAAA GCCGAAAGGCGAGUGAGGUUCU	GGUAUGU	31364
5996	5034	CCGUUUUU G UCCACUAU	12990	AUAGUGGA GCCGAAAGGCGAGUGAGGUUCU	AAAAACGG	31365
6007	5023	CACUAUUG G UGAGCCUG	12991	CAGGCUCA GCCGAAAGGCGAGUGAGGUUCU	CAUAUGUG	31366
6011	5019	AUUGGUGA G CCUGAUGU	12992	ACAUCAGG GCCGAAAGGCGAGUGAGGUUCU	UCACCAAU	31367
6018	5012	AGCCUGAU G UUCACAGU	12993	CACUGGAA GCCGAAAGGCGAGUGAGGUUCU	AUCAGGCU	31368
6024	5006	AUGUCCA G UGGGGAAG	12994	CUUCCCCA GCCGAAAGGCGAGUGAGGUUCU	UGGAACAU	31369
6032	4998	UGGGGAA G UCCAAAGU	12995	ACUUUGGA GCCGAAAGGCGAGUGAGGUUCU	UUCCCAC	31370
6039	4991	AGUCCAAA G UCACGGCC	12996	GGCCGUGA GCCGAAAGGCGAGUGAGGUUCU	UUUGGACU	31371
6045	4985	AAGUCACG G CCCGAUU	12997	AAUCGGGG GCCGAAAGGCGAGUGAGGUUCU	CGUGACUU	31372
6064	4966	UCCUUCA G UGUUUUGA	12998	UCAAAACA GCCGAAAGGCGAGUGAGGUUCU	CUGAAGGA	31373
6066	4964	CUUCAGGU G UUUUGAAC	12999	GUUCAAAA GCCGAAAGGCGAGUGAGGUUCU	ACCUGAAG	31374
6082	4948	CACCCUCG G UUUUGUCU	13000	AGACGAAA GCCGAAAGGCGAGUGAGGUUCU	CAGGGUG	31375
6087	4943	CUGGUUUC G UCUGGACG	13001	CGUCCAGA GCCGAAAGGCGAGUGAGGUUCU	GAAACAG	31376
6095	4935	GUCUGGAC G UUCUUAAC	13002	GUUAAGAA GCCGAAAGGCGAGUGAGGUUCU	GUCCAGAC	31377
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA GCCGAAAGGCGAGUGAGGUUCU	GUUAAGAA	31378
6110	4920	ACGUUCUU G CCAGGUUC	13004	GAACCTGG GCCGAAAGGCGAGUGAGGUUCU	AAGAAGCU	31379
6115	4915	CUUGCCAG G UUCACCA	13005	UGUGUGAA GCCGAAAGGCGAGUGAGGUUCU	CUGGCAAG	31380
6133	4897	AAUCAUCU G CACCUCAU	13006	AUGAGGUG GCCGAAAGGCGAGUGAGGUUCU	AGAUAU	31381
6145	4885	CUCAUCCU G CCCGUUCC	13007	GGAACGGG GCCGAAAGGCGAGUGAGGUUCU	AGGAUGAG	31382
6149	4881	UCCUGCCC G UUCACUU	13008	AAGUGGAA GCCGAAAGGCGAGUGAGGUUCU	GGGAGGA	31383
6158	4872	UUCCAUUU G UGCUGCAA	13009	UUGCAGCA GCCGAAAGGCGAGUGAGGUUCU	AAGUGGAA	31384
6160	4870	CCACUUGU G CUGCAAUU	13010	AAUUGCAG GCCGAAAGGCGAGUGAGGUUCU	ACAAGUGG	31385
6163	4867	CUUGUGCU G CAAUUUCC	13011	GGAAAUUG GCCGAAAGGCGAGUGAGGUUCU	AGCACAA	31386

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6175	4855	UUUCCAGG G UCCUCCGU	13012	ACGGAGGA GCCGAAAGGCGAGUGAGGUCU	CCUGGAAA	31387
6182	4848	GUUCCUCC G UAACAAAG	13013	CUUUGUTA GCCGAAAGGCGAGUGAGGUCU	GGAGGACC	31388
6190	4840	GUUACAAA G UCGAUCCU	13014	AGGAUCGA GCCGAAAGGCGAGUGAGGUCU	UUUGUUAC	31389
6209	4821	UUGACACU G CCCAGUA	13015	UACUGGGG GCCGAAAGGCGAGUGAGGUCU	AGUGUCA	31390
6215	4815	CUGCCCCA G UAUGGGUC	13016	GACCCADA GCCGAAAGGCGAGUGAGGUCU	UGGGGCAG	31391
6221	4809	CAGUAUGG G UCCAGGCG	13017	CGCCUGGA GCCGAAAGGCGAGUGAGGUCU	CCAUACUG	31392
6227	4803	GGGUCCAG G CGGCCUC	13018	GAGGGCCG GCCGAAAGGCGAGUGAGGUCU	CUGGACCC	31393
6230	4800	UCAGGGCG G CCCUCCU	13019	GGAGAGGG GCCGAAAGGCGAGUGAGGUCU	CGCCUGGA	31394
6239	4791	CCCUCCU G CUCAUCAA	13020	UUGAUGAG GCCGAAAGGCGAGUGAGGUCU	GGAGAGGG	31395
6249	4781	UCAUCAA G CGGCUCU	13021	AGGAGCCG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGA	31396
6252	4778	UCAAGCG G CUCCUUU	13022	AAAAGGAG GCCGAAAGGCGAGUGAGGUCU	CGCUUUGA	31397
6261	4769	CUCCUUU G UUGUAUGC	13023	GCAUACAA GCCGAAAGGCGAGUGAGGUCU	AAAAGGAG	31398
6264	4766	CUUUUGU G UAUGCCAA	13024	UUGGCAUA GCCGAAAGGCGAGUGAGGUCU	AACAAAAG	31399
6268	4762	UGUUGUAU G CCAAAGGG	13025	CCCUUUGG GCCGAAAGGCGAGUGAGGUCU	AUACAACA	31400
6276	4754	GCCAAAGG G UGUGGAAA	13026	UUUCCACA GCCGAAAGGCGAGUGAGGUCU	CCUUUGG	31401
6278	4752	CAAAGGGU G UGAAAAC	13027	GUUUUCCA GCCGAAAGGCGAGUGAGGUCU	ACCCUUUG	31402
6302	4728	ACCAUCAG G CCCGUCC	13028	GGAGCGGG GCCGAAAGGCGAGUGAGGUCU	GUGAUGU	31403
6306	4724	UCACGCCG G CUCCUGCU	13029	AGCAGGAG GCCGAAAGGCGAGUGAGGUCU	GGGCGUGA	31404
6312	4718	CCGCUCU G CUUGAUAA	13030	UUUAUCAA GCCGAAAGGCGAGUGAGGUCU	AGGAGCGG	31405
6323	4707	UGUAACU G CCGAGCAG	13031	CUGCUCGG GCCGAAAGGCGAGUGAGGUCU	AGUUUAUA	31406
6328	4702	ACUGCCGA G CAGCCAC	13032	GUGGGCUG GCCGAAAGGCGAGUGAGGUCU	UCGGCAGU	31407
6331	4699	GCCGAGCA G CCCACGAG	13033	CUCUGGGG GCCGAAAGGCGAGUGAGGUCU	UGCUCGGC	31408
6339	4691	GCCCACGA G UCAUGAUC	13034	GAUCAUGA GCCGAAAGGCGAGUGAGGUCU	UCGUGGGC	31409
6350	4680	AUGAUCCU G UAGACGCC	13035	GGCGUCUA GCCGAAAGGCGAGUGAGGUCU	AGGAUCAU	31410
6356	4674	CUGUAGAC G CCGUGGU	13036	ACCACCGG GCCGAAAGGCGAGUGAGGUCU	GUCUACAG	31411
6360	4670	AGACGCCG G UGGUCGUG	13037	CACGACCA GCCGAAAGGCGAGUGAGGUCU	CGGCGUCU	31412
6363	4667	CGCGGUG G UCGUGUCC	13038	GGACACGA GCCGAAAGGCGAGUGAGGUCU	CACCGGGG	31413
6366	4664	CGGUGGUC G UGUCCCC	13039	GGGGGACA GCCGAAAGGCGAGUGAGGUCU	GACCACCG	31414
6368	4662	GUGGUCGU G UCCCCU	13040	AAGGGGGA GCCGAAAGGCGAGUGAGGUCU	ACGACCCAC	31415
6380	4650	CCCUUUU G UACUCCU	13041	AAGGAGUA GCCGAAAGGCGAGUGAGGUCU	AAAAAGGG	31416
6391	4639	CUCCUUUG G UGAGGGAG	13042	CUCCUCA GCCGAAAGGCGAGUGAGGUCU	CAAAGGAG	31417
6399	4631	GUGAGGGA G UGUCCAC	13043	GUGGGACA GCCGAAAGGCGAGUGAGGUCU	UCCUCAC	31418
6401	4629	GAGGGAGU G UCCACAA	13044	UUGUGGGA GCCGAAAGGCGAGUGAGGUCU	ACUCCUC	31419
6413	4617	CACAAC G CCUCCU	13045	AGAGGAGG GCCGAAAGGCGAGUGAGGUCU	GUGUUGUG	31420
6426	4604	CUCUCUU G UGUUUUG	13046	CCAAUACA GCCGAAAGGCGAGUGAGGUCU	AAAGAGAG	31421
6428	4602	CUCUUUGU G UAUUGGAG	13047	CUCCAUA GCCGAAAGGCGAGUGAGGUCU	ACAAAGAG	31422
6438	4592	AUUGGAGA G UUAUCAA	13048	UUGGAUAA GCCGAAAGGCGAGUGAGGUCU	UCUCAAU	31423
6463	4567	UACUGAGG G CAAGAUG	13049	CAAUUUUG GCCGAAAGGCGAGUGAGGUCU	CCUCAGUA	31424
6471	4559	GCAAGAUU G CCCAGGGG	13050	CCCUUGG GCCGAAAGGCGAGUGAGGUCU	AAUCUUG	31425
6480	4550	CCCAGGGG G UGUAGCA	13051	UGGUAAGA GCCGAAAGGCGAGUGAGGUCU	CCCUUGG	31426
6482	4548	CAGGGGU G UACGCACU	13052	AGUGCGUA GCCGAAAGGCGAGUGAGGUCU	ACCCUCG	31427
6486	4544	GGGUGUAC G CACUAUUC	13053	GAUUAUGG GCCGAAAGGCGAGUGAGGUCU	GUACACC	31428
6495	4535	CACUAUUC G CGAGACAG	13054	CUGUCUCG GCCGAAAGGCGAGUGAGGUCU	GAUUAUG	31429
6514	4516	CAUUCUGA G CAUCCAUA	13055	UAUGGAUG GCCGAAAGGCGAGUGAGGUCU	UCAGAAUG	31430
6532	4498	CUUCCAAG G UGUCCUG	13056	CAGGAGCA GCCGAAAGGCGAGUGAGGUCU	CUUGGAAG	31431
6534	4496	UCCAAGGU G CUCCUGGA	13057	UCCAGGAG GCCGAAAGGCGAGUGAGGUCU	ACCUUGGA	31432
6553	4477	AUJCAUGA G CUGGAAGU	13058	ACUUCAG GCCGAAAGGCGAGUGAGGUCU	UCAUGAAU	31433
6560	4470	AGCUGGAA G UUUCCAUC	13059	GAUGGAAA GCCGAAAGGCGAGUGAGGUCU	UUCACAGU	31434
6577	4453	AUCAUCAA G CCGACAU	13060	AUGUGCGG GCCGAAAGGCGAGUGAGGUCU	UUGAUGAU	31435
6580	4450	AUCAAGCC G CACAUCAA	13061	UUGAUGUG GCCGAAAGGCGAGUGAGGUCU	GGCUUGAU	31436
6596	4434	ACUCUUUC G CUCGAGCC	13062	GGCUCGAG GCCGAAAGGCGAGUGAGGUCU	GAAGAGU	31437
6602	4428	UCGUCUGA G CCUGUAU	13063	AUUAACAG GCCGAAAGGCGAGUGAGGUCU	UCAGCGGA	31438
6606	4424	UCGAGCCU G UAAUUUCU	13064	AGAAAUUA GCCGAAAGGCGAGUGAGGUCU	AGGCUCCA	31439
6615	4415	UAAUUUCU G CAUACUU	13065	AAGUGAUG GCCGAAAGGCGAGUGAGGUCU	AGAAAUUA	31440
6635	4395	CAGGAAU G UCCGCCU	13066	ACGGCGGA GCCGAAAGGCGAGUGAGGUCU	AUUUCCUG	31441
6639	4391	AAUUGUCC G CCGUUCU	13067	GAGAACGG GCCGAAAGGCGAGUGAGGUCU	GGACAUU	31442
6642	4388	UGUCCGCC G UUCUCUCA	13068	UGAGAGAA GCCGAAAGGCGAGUGAGGUCU	GGCGACA	31443
6663	4367	ACAUAUCU G UUGAUUUC	13069	GAUAUCAA GCCGAAAGGCGAGUGAGGUCU	AGAUUGU	31444
6687	4343	UACGAAA G CAGCAAC	13070	GUUUGCUG GCCGAAAGGCGAGUGAGGUCU	UUUCUGA	31445
6690	4340	CGAAAGCA G CAAACAUG	13071	CAUGUUUG GCCGAAAGGCGAGUGAGGUCU	UGC UUUG	31446
6700	4330	AAACAUGA G CCCCAGA	13072	UCGCGGGG GCCGAAAGGCGAGUGAGGUCU	UCAUGUU	31447
6705	4325	UGAGCCCC G GAAUAGUC	13073	GACUAUCG GCCGAAAGGCGAGUGAGGUCU	GGGCUCA	31448

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6711	4319	COGCGAUA G UCAUUGGA	13074	UCCAAUGA GCCGAAAGGCGAGUGAGGUCU	UAUCGCGG	31449
6723	4307	UUGGAAUG G CCAUGGAG	13075	CUCCAUGG GCCGAAAGGCGAGUGAGGUCU	CAUUCCAA	31450
6731	4299	GCCAUGGA G UCAUUGUC	13076	GACAUUGA GCCGAAAGGCGAGUGAGGUCU	UCCAUGGC	31451
6737	4293	GAGUCAAU G UCAAGCUC	13077	GAGCUUGA GCCGAAAGGCGAGUGAGGUCU	AUUGACUC	31452
6742	4288	AAUGUCA G CUCUGCCA	13078	UGGCAGAG GCCGAAAGGCGAGUGAGGUCU	UUGACAUA	31453
6747	4283	CAAGCUCU G CCAGCCCU	13079	AGGGCUGG GCCGAAAGGCGAGUGAGGUCU	AGAGCUUG	31454
6751	4279	CUCUGCCA G CCCUCCGA	13080	UCGGAGGG GCCGAAAGGCGAGUGAGGUCU	UGGCAGAG	31455
6765	4265	CGACGAUG G CAAACAUA	13081	AAUGUUUG GCCGAAAGGCGAGUGAGGUCU	CAUUCGUG	31456
6776	4254	AACAUAUG G CCGACAGC	13082	GCUGUCGG GCCGAAAGGCGAGUGAGGUCU	CUAAUGUU	31457
6783	4247	GGCCGACA G CUGUCAUC	13083	GAUGACAG GCCGAAAGGCGAGUGAGGUCU	UGUCGGCG	31458
6786	4244	CGACAGCU G UCAUCACU	13084	AGUGAUGA GCCGAAAGGCGAGUGAGGUCU	AGCUGUCG	31459
6798	4232	UCACUUGA G UUGCGGGC	13085	GCCCGCAA GCCGAAAGGCGAGUGAGGUCU	UGAAGUGA	31460
6801	4229	CUUCAGUU G CGGGCCAU	13086	AUGGCCCG GCCGAAAGGCGAGUGAGGUCU	AACUGAAG	31461
6805	4225	AGUUGCGG G CCAUCCGC	13087	GCGGAUGG GCCGAAAGGCGAGUGAGGUCU	CGCAACU	31462
6812	4218	GGCCAUCG G CGUUUACG	13088	CGUAAACG GCCGAAAGGCGAGUGAGGUCU	GGAUGGCC	31463
6814	4216	CCAUCCCG G UUUACGGU	13089	ACCGUAAA GCCGAAAGGCGAGUGAGGUCU	GCGGAUGG	31464
6821	4209	CGUUUACG G UUGGGAUC	13090	GAUCCCAA GCCGAAAGGCGAGUGAGGUCU	CGUAAACG	31465
6834	4196	GAUCACAU G CAUUCAGU	13091	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU	AUGUGAUC	31466
6841	4189	UGCAAUCA G UCCAGCAG	13092	CUGCUGGA GCCGAAAGGCGAGUGAGGUCU	UGAUUGCA	31467
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCUUGCUG GCCGAAAGGCGAGUGAGGUCU	UGGACUGA	31468
6849	4181	GUCCAGCA G CAAGGAUC	13094	GAUCCUUG GCCGAAAGGCGAGUGAGGUCU	UGCUGGAC	31469
6863	4167	AUCAUGGG G UUGAAAAG	13095	CUUUUCAA GCCGAAAGGCGAGUGAGGUCU	CCCAUGAU	31470
6871	4159	GUUGAAA G UCCUGUUG	13096	CAACAGGA GCCGAAAGGCGAGUGAGGUCU	UUUUCAAC	31471
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCUCA G GCCGAAAGGCGAGUGAGGUCU	AGGACUUU	31472
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCUCUAG GCCGAAAGGCGAGUGAGGUCU	CUCAACAG	31473
6888	4142	AGGCUAGA G CCAAGCAU	13099	AUGCUUGG GCCGAAAGGCGAGUGAGGUCU	UCUAGCCU	31474
6893	4137	AGAGCCAA G CAUAGCAG	13100	CUGCUAUG GCCGAAAGGCGAGUGAGGUCU	UUGGCUCU	31475
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGUCUG GCCGAAAGGCGAGUGAGGUCU	UAUGCUUG	31476
6906	4124	GCAGACUU G CUCCUUUC	13102	CAACAGGA GCCGAAAGGCGAGUGAGGUCU	AAGUCUGC	31477
6921	4109	UCUUUUUU G CAGCUGCA	13103	UGCAGCUG GCCGAAAGGCGAGUGAGGUCU	AAAAAAGA	31478
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGUGCAG GCCGAAAGGCGAGUGAGGUCU	UGCAAAAA	31479
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGUG GCCGAAAGGCGAGUGAGGUCU	AGCUGCAA	31480
6950	4080	CUGAUCAA G CUGCCUAU	13106	AUAGGCAG GCCGAAAGGCGAGUGAGGUCU	UUGAUCAU	31481
6953	4077	AUCAAGCU G CCUAUUCU	13107	GGAAUAGG GCCGAAAGGCGAGUGAGGUCU	AGCUUGAU	31482
6973	4057	CAUCAACA G CAGUAUCC	13108	GGAUACUG GCCGAAAGGCGAGUGAGGUCU	UUGUGAUG	31483
6976	4054	CAACAGCA G UAUCCUGU	13109	ACAGGAUA GCCGAAAGGCGAGUGAGGUCU	UGCUGUUG	31484
6983	4047	AGUAUCCU G UACACAUC	13110	GAUGUGUA GCCGAAAGGCGAGUGAGGUCU	AGGAUACU	31485
7001	4029	AGAUUCAA G CAUCUCAG	13111	CUGAGAUG GCCGAAAGGCGAGUGAGGUCU	UUGAAUCU	31486
7009	4021	GCAUCUCA G CCCGGGUG	13112	CACCCGGG GCCGAAAGGCGAGUGAGGUCU	UGAGAUGC	31487
7015	4015	CAGCCCGG G UGUUAGCA	13113	UGCUAACA GCCGAAAGGCGAGUGAGGUCU	CCGGGCUG	31488
7017	4013	GCCCGGGU G UUAGCAGG	13114	CCUGCUAA GCCGAAAGGCGAGUGAGGUCU	ACCCGGGC	31489
7021	4009	GGGUGUUA G CAGGGCUA	13115	UAGCCUGG GCCGAAAGGCGAGUGAGGUCU	UAAACCCC	31490
7026	4004	UUAGCAGG G CUAGCAGC	13116	GCUGCUAG GCCGAAAGGCGAGUGAGGUCU	CCUGCUAA	31491
7030	4000	CAGGGCUA G CAGCGGAA	13117	UUCGCGUG GCCGAAAGGCGAGUGAGGUCU	UAGCCUGG	31492
7033	3997	GGCUAGCA G CGGAACAA	13118	UUGUUCUG GCCGAAAGGCGAGUGAGGUCU	UGCUGGCC	31493
7046	3984	ACAACCAC G UUGAUGU	13119	ACAUCAAA GCCGAAAGGCGAGUGAGGUCU	GUGGUUGU	31494
7053	3977	CGUUUGAU G UCGUUGUG	13120	CACAACGA GCCGAAAGGCGAGUGAGGUCU	AUCAACCG	31495
7056	3974	UUGAUGUC G UUGUGAAU	13121	AUUCACAA GCCGAAAGGCGAGUGAGGUCU	GACAUCAA	31496
7059	3971	AUGUCGUU G UGAAUGUU	13122	AACAUTCA GCCGAAAGGCGAGUGAGGUCU	AACGACAU	31497
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCAUAA GCCGAAAGGCGAGUGAGGUCU	AUUCACAA	31498
7071	3959	AUGUUADG G CUCUCAGU	13124	ACUGAGAG GCCGAAAGGCGAGUGAGGUCU	CAUAACAU	31499
7078	3952	GGCUCUCA G UAUCAUCC	13125	GGAUUAUA GCCGAAAGGCGAGUGAGGUCU	UGAGAGCC	31500
7089	3941	UCAUCCAA G CUACCGCC	13126	GCGGUAAG GCCGAAAGGCGAGUGAGGUCU	UUGGAUGA	31501
7095	3935	AAGCUACC G CCAGUGAA	13127	UUCACUGG GCCGAAAGGCGAGUGAGGUCU	GGUAGCUU	31502
7099	3931	UACCGCCA G UGAAUUCA	13128	UGAAUUCA GCCGAAAGGCGAGUGAGGUCU	UGGCGGUA	31503
7129	3901	CUCCACAG G CAGAAUUU	13129	AAAUUCUG GCCGAAAGGCGAGUGAGGUCU	UCUGGGAG	31504
7139	3891	AGAAUUUG G CGGGCAUC	13130	GAUGCCCG GCCGAAAGGCGAGUGAGGUCU	CAAAUUCU	31505
7143	3887	UUUGGCGG G CAUCGUGA	13131	UCACGAUG GCCGAAAGGCGAGUGAGGUCU	CCGCCAAA	31506
7148	3882	CGGGCAUC G UGAUAAGC	13132	CGUUUAUA GCCGAAAGGCGAGUGAGGUCU	GAUGCCCG	31507
7155	3875	CGUGAUAA G CCAUUGUA	13133	UCAAUUGG GCCGAAAGGCGAGUGAGGUCU	UUAUCACG	31508
7173	3857	AGAAAACA G CCGCAAC	13134	GUUGGCGG GCCGAAAGGCGAGUGAGGUCU	UGUUUUUC	31509
7176	3854	AAACAGCC G CCAACAUC	13135	GAUGUUGG GCCGAAAGGCGAGUGAGGUCU	GUCUGUUU	31510

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7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GCCGAAAGGCGAGUGAGGUCU AUUUUGUU	31511
7202	3828	UUCUCCUG G UUGGUCCA	13137	UGGACCAA GCCGAAAGGCGAGUGAGGUCU CAGGAGAA	31512
7206	3824	CCUGGUGU G UCCAUCUC	13138	GAGAUUGA GCCGAAAGGCGAGUGAGGUCU CAACCAGG	31513
7215	3815	UCCAUCUC G CUUUGAGA	13139	UCUCAAGG GCCGAAAGGCGAGUGAGGUCU GAGAUGGA	31514
7230	3800	GAAACGAU G CCACCAUA	13140	UAUGGUGG GCCGAAAGGCGAGUGAGGUCU AUCGUUUC	31515
7246	3784	AAACACUG G UUGUAUCU	13141	AGAUACAA GCCGAAAGGCGAGUGAGGUCU CAGUGUUU	31516
7249	3781	CACUGGUU G UAUCUUGA	13142	UCAAGATA GCCGAAAGGCGAGUGAGGUCU AACCAGUG	31517
7260	3770	UCUUGAAG G UCGCCAUG	13143	CAUGGCGA GCCGAAAGGCGAGUGAGGUCU CUUCAAGA	31518
7263	3767	UGAAGGUC G CCAUGAGC	13144	GCUCAUGG GCCGAAAGGCGAGUGAGGUCU GACCUUCA	31519
7270	3760	CGCCAUGA G CGCCAAGU	13145	ACUUGGCG GCCGAAAGGCGAGUGAGGUCU UCAUGGCG	31520
7272	3758	CCAUGAGC G CCAAGUGU	13146	GGUGGGGG GCCGAAAGGCGAGUGAGGUCU GCUCAUGG	31521
7277	3753	AGCGCCAA G UGUACCAC	13147	GUGGUACA GCCGAAAGGCGAGUGAGGUCU UUGGCGCU	31522
7279	3751	CGCCAAGU G UACCACGU	13148	ACGUGGUA GCCGAAAGGCGAGUGAGGUCU ACUUGGCG	31523
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GCCGAAAGGCGAGUGAGGUCU GUGGUACA	31524
7308	3722	UAGAUCU G CGAAAGCU	13150	AGCUUUCG GCCGAAAGGCGAGUGAGGUCU AGAAUCUA	31525
7314	3716	CUGCGAAA G CUGCCCC	13151	GGGGGCAG GCCGAAAGGCGAGUGAGGUCU UUUUCGAG	31526
7317	3713	CGAAAGCU G CCCCACCC	13152	GGUGGGGG GCCGAAAGGCGAGUGAGGUCU AGCUUUCG	31527
7337	3693	AUGACAU G CGUAACAC	13153	GUGUUAAC GCCGAAAGGCGAGUGAGGUCU UAUGUCAU	31528
7339	3691	GACAUAGC G UAACACAU	13154	AUGUGUUA GCCGAAAGGCGAGUGAGGUCU GCUAUGUC	31529
7350	3680	ACACAUCA G UGUAGUA	13155	UACUUAAC GCCGAAAGGCGAGUGAGGUCU UGAUGUGU	31530
7352	3678	ACAUCAGU G UAAGUAU	13156	AUUAUCUA GCCGAAAGGCGAGUGAGGUCU ACUGAUGU	31531
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCAUUA GCCGAAAGGCGAGUGAGGUCU UUAACUUG	31532
7361	3669	UAGUAUUA G CCCCAGAA	13158	UUUGGGGG GCCGAAAGGCGAGUGAGGUCU AUUAUCUA	31533
7381	3649	CAGGACUA G CAGAGCAA	13159	UUGCUCUG GCCGAAAGGCGAGUGAGGUCU UAGUCCUG	31534
7386	3644	CUAGCAGA G CAAUCAGU	13160	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU UCUGCUAG	31535
7393	3637	AGCAUACA G UAUAGCUG	13161	CAGCUAUA GCCGAAAGGCGAGUGAGGUCU UGAUUGCU	31536
7398	3632	UCAGUAUA G CUGGCAUG	13162	CAUGCCAG GCCGAAAGGCGAGUGAGGUCU UAUACUGA	31537
7402	3628	UAUAGCUG G CAUGCUGA	13163	UCAGCAUG GCCGAAAGGCGAGUGAGGUCU CAGCUAUA	31538
7406	3624	GUUGGCAU G CUGAUCUU	13164	AAGAUCAG GCCGAAAGGCGAGUGAGGUCU AUGCCAGC	31539
7416	3614	UGAUCUUG G CUGUCCAC	13165	GUGGACAG GCCGAAAGGCGAGUGAGGUCU CAAGAUA	31540
7419	3611	UCUUGGCU G UCCACCUC	13166	GAGGUGGA GCCGAAAGGCGAGUGAGGUCU AGCCAAGA	31541
7430	3600	CACCUCUU G CGAAGGAC	13167	GUCCUUCG GCCGAAAGGCGAGUGAGGUCU AAGAGGUG	31542
7446	3584	CCUCCUGG G UGGCCAAG	13168	CUUGGCCA GCCGAAAGGCGAGUGAGGUCU CCAGGAGG	31543
7449	3581	CCUGGGUG G CCAAGAAC	13169	GUUCUUGG GCCGAAAGGCGAGUGAGGUCU CACCCAGG	31544
7469	3561	ACCAGAAG G CCCAACUG	13170	GAUUGGGG GCCGAAAGGCGAGUGAGGUCU CUUCUGGU	31545
7484	3546	UGAAAAGG G UCAAUCAU	13171	AUGAUUGA GCCGAAAGGCGAGUGAGGUCU CCUUUUA	31546
7497	3533	UCAUAUCA G CAUUAUAA	13172	UUAUAUUG GCCGAAAGGCGAGUGAGGUCU UGAUAUGA	31547
7506	3524	CAUUAUAA G CAUUCACU	13173	AGUGAAUG GCCGAAAGGCGAGUGAGGUCU UUAUAUUG	31548
7516	3514	AUUCACUU G UGACUGCA	13174	UGCAGUCA GCCGAAAGGCGAGUGAGGUCU AAGUGAAU	31549
7522	3508	UUGUGACU G CACGAGGG	13175	CCUCUGUG GCCGAAAGGCGAGUGAGGUCU AGUCACAA	31550
7530	3500	GCCAGAGG G UCUUUUCA	13176	UGAAAAGA GCCGAAAGGCGAGUGAGGUCU CCUCGUGC	31551
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GCCGAAAGGCGAGUGAGGUCU AUGAUGAA	31552
7549	3481	AUGUCUCU G UGGUCUGA	13178	UCAGACCA GCCGAAAGGCGAGUGAGGUCU AGAGACAU	31553
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGAUCAGA GCCGAAAGGCGAGUGAGGUCU CACAGAGA	31554
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GCCGAAAGGCGAGUGAGGUCU UGUUGGUA	31555
7580	3450	CAACAGCC G CUGUCAGU	13181	ACUGACAG GCCGAAAGGCGAGUGAGGUCU GGCUGUUG	31556
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAAUCUGA GCCGAAAGGCGAGUGAGGUCU AGCGGCGU	31557
7587	3443	CGCUGUCA G UUUGGUAG	13183	CUACCAA GCCGAAAGGCGAGUGAGGUCU UGACAGCG	31558
7592	3438	UCAGUUUG G UAGCGCAG	13184	CUGCGCUA GCCGAAAGGCGAGUGAGGUCU CAAACUGA	31559
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACUGCG GCCGAAAGGCGAGUGAGGUCU UACCAAAC	31560
7597	3433	UUUGUAGC G CAGUGGUG	13186	CACCACUG GCCGAAAGGCGAGUGAGGUCU GCUACCAA	31561
7600	3430	GUAGCGCA G UGGUGGUA	13187	UACCAACA GCCGAAAGGCGAGUGAGGUCU UGCUCUAC	31562
7603	3427	GCCAGAGU G UGUUAAGG	13188	CCUUAACA GCCGAAAGGCGAGUGAGGUCU CACUGCGC	31563
7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCUUA GCCGAAAGGCGAGUGAGGUCU CACCACUG	31564
7611	3419	GUGGUAAG G UGCAGCUC	13190	GAGCUGCA GCCGAAAGGCGAGUGAGGUCU CUUACCAC	31565
7613	3417	GGUAAGGU G CAGCUCU	13191	AGGAGCUG GCCGAAAGGCGAGUGAGGUCU ACCUUAAC	31566
7616	3414	AAGGUGCA G CUCCUGCA	13192	UGCAGGAG GCCGAAAGGCGAGUGAGGUCU UGCACCUU	31567
7622	3408	CAGCUCU G CAGACCA	13193	UGUGUGUG GCCGAAAGGCGAGUGAGGUCU AGGAGCUG	31568
7625	3405	CUCUGCA G CACCAUUC	13194	GAUUGGUG GCCGAAAGGCGAGUGAGGUCU UGCAGGAG	31569
7635	3395	ACCAUUCU G UUAUCAAC	13195	GUUGAUAA GCCGAAAGGCGAGUGAGGUCU AGAUUGGU	31570
7649	3381	AACUUUCC G CUCUCUGU	13196	ACAGAGAG GCCGAAAGGCGAGUGAGGUCU GGAAGUUG	31571
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GCCGAAAGGCGAGUGAGGUCU AGAGAGCG	31572

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7659	3371	UCUCUGUG G UGGUGCGA	13198	UCCACCA GCCGAAAGGCGAGUGAGGUCU	CACAGAGA	31573
7662	3368	CUUGUGUG G UGCGAGUG	13199	CACUCGCA GCCGAAAGGCGAGUGAGGUCU	CACCACAG	31574
7664	3366	GUGGUGUG G CGAGUGGC	13200	GCCACUCG GCCGAAAGGCGAGUGAGGUCU	ACCACCAC	31575
7666	3362	UGGUGCGA G UGGCAGGU	13201	ACCUGCCA GCCGAAAGGCGAGUGAGGUCU	UGCCACCA	31576
7671	3359	UGCGAGUG G CAGGUCCA	13202	UGGACCUG GCCGAAAGGCGAGUGAGGUCU	CACUCGCA	31577
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCGUGGA GCCGAAAGGCGAGUGAGGUCU	CUGCCACU	31578
7682	3348	GGUCCACG G UGUCCGCA	13204	UGCGGACA GCCGAAAGGCGAGUGAGGUCU	CGUGGACC	31579
7684	3346	UCCACGGU G UCCGCGAG	13205	GCUGCGGA GCCGAAAGGCGAGUGAGGUCU	ACCGUGGA	31580
7688	3342	CGGUGUCC G CAGCUCUC	13206	GAGAGCUG GCCGAAAGGCGAGUGAGGUCU	GGACACCG	31581
7691	3339	UGUCCGCA G CUCUCACU	13207	AGUGAGAG GCCGAAAGGCGAGUGAGGUCU	UGCGGACA	31582
7704	3326	CACUCAGG G UGACCGUA	13208	UACGGUCA GCCGAAAGGCGAGUGAGGUCU	CCUGAGUG	31583
7710	3320	GGGUGACC G UAGUUCU	13209	AGGAACUA GCCGAAAGGCGAGUGAGGUCU	GGUCACCC	31584
7713	3317	UGACCGUA G UUCUUGG	13210	CCGAGGAA GCCGAAAGGCGAGUGAGGUCU	UACGGUCA	31585
7721	3309	GUUCCUGG G CAGUAAUC	13211	GAUUAUCG GCCGAAAGGCGAGUGAGGUCU	CCAGGAAC	31586
7724	3306	CCUGGGCA G UAAUCGAA	13212	UUCGAUTU GCCGAAAGGCGAGUGAGGUCU	UGCCCAGG	31587
7733	3297	UAAUCGAA G UCAAUCUC	13213	GAGAUAUA GCCGAAAGGCGAGUGAGGUCU	UUCGAUTU	31588
7748	3282	UCUACCG G CCUUCGUC	13214	GAGGAAGG GCCGAAAGGCGAGUGAGGUCU	CGGGUAGA	31589
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCAUGGGA GCCGAAAGGCGAGUGAGGUCU	GAAGGCCG	31590
7763	3267	UCCCAUGG G CCCUGGUU	13216	AACCAGGG GCCGAAAGGCGAGUGAGGUCU	CCAUGGGA	31591
7769	3261	GGGCCUG G UUUUGUGU	13217	ACACAAA GCCGAAAGGCGAGUGAGGUCU	CAGGGCCC	31592
7774	3256	CUGGUUU G UGUCUUGU	13218	ACAAGACA GCCGAAAGGCGAGUGAGGUCU	AAAACCAG	31593
7776	3254	GGUUUGU G UCUUGUAC	13219	GUACAAGA GCCGAAAGGCGAGUGAGGUCU	ACAAAACC	31594
7781	3249	UGUGUCU G UACCCAGG	13220	CCUGGGUA GCCGAAAGGCGAGUGAGGUCU	AAGACACA	31595
7789	3241	GUACCCAG G UCUCCGAU	13221	AUCGGAGA GCCGAAAGGCGAGUGAGGUCU	CUGGGUAC	31596
7799	3231	CUCCGAU G UGAUUGCU	13222	AGCAAUCA GCCGAAAGGCGAGUGAGGUCU	AAUCGGAG	31597
7805	3225	UUGUGAU G CUUCGUGG	13223	CCACGAAG GCCGAAAGGCGAGUGAGGUCU	AAUCACAA	31598
7810	3220	AUUGCUUC G UGUUCCG	13224	CGGGACCA GCCGAAAGGCGAGUGAGGUCU	GAAGCAAU	31599
7813	3217	GUUCGUG G UCCCGCCA	13225	UGGCGGGA GCCGAAAGGCGAGUGAGGUCU	CACGAAGC	31600
7818	3212	GUGGUCC G CCAUGUG	13226	CACACUGG GCCGAAAGGCGAGUGAGGUCU	GGGACCAC	31601
7822	3208	UCCCGCCA G UGUGACUG	13227	CAGUCACA GCCGAAAGGCGAGUGAGGUCU	UGGCGGGA	31602
7824	3206	CCGCCAGU G UGACUGGU	13228	ACCAGUCA GCCGAAAGGCGAGUGAGGUCU	ACUGCGGG	31603
7831	3199	UGUGACUG G UAUUAUCA	13229	UGAUUAUA GCCGAAAGGCGAGUGAGGUCU	CAGUCACA	31604
7841	3189	AUUAUCAA G UCACUCUC	13230	GAGAGUGA GCCGAAAGGCGAGUGAGGUCU	UUGAUAAU	31605
7862	3168	AUUCACU G CCCACAA	13231	UUGUGGGG GCCGAAAGGCGAGUGAGGUCU	GAUGGAU	31606
7872	3158	CCCACAG G UAUGCGUC	13232	GACCAUA GCCGAAAGGCGAGUGAGGUCU	CUUGUGGG	31607
7876	3154	CAAGGUAV G CGUCUCAG	13233	CUGAGACG GCCGAAAGGCGAGUGAGGUCU	AUACCUUG	31608
7878	3152	AGGUUAGC G UCUCAGGC	13234	GCCUGAGA GCCGAAAGGCGAGUGAGGUCU	GCAUACCU	31609
7885	3145	CGUCUCAG G CCACGUAC	13235	GUACUGG GCCGAAAGGCGAGUGAGGUCU	CUGAGACG	31610
7890	3140	CAGGCCAC G UACAUGAU	13236	AUCAUGUA GCCGAAAGGCGAGUGAGGUCU	GUGGCCUG	31611
7917	3113	CCAGAACU G CCUUUCA	13237	UGAAAGGG GCCGAAAGGCGAGUGAGGUCU	AGUUCUGG	31612
7927	3103	CCUUCAA G CUUCCAG	13238	CGUGGAAG GCCGAAAGGCGAGUGAGGUCU	UUGAAAGG	31613
7935	3095	GUUCCAC G UAUCAUUG	13239	CAUUGUA GCCGAAAGGCGAGUGAGGUCU	GUGGAAGC	31614
7945	3085	AUCAUGA G CCUGCUUU	13240	AAAGCAGG GCCGAAAGGCGAGUGAGGUCU	UCAUUGAU	31615
7949	3081	UUGAGCCU G CUUCAAU	13241	AUUGAAAG GCCGAAAGGCGAGUGAGGUCU	AGGCUCAA	31616
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGUGA GCCGAAAGGCGAGUGAGGUCU	CUGUCCUA	31617
7976	3054	AGGUACU G UGGAUCGC	13243	GCGAUCCA GCCGAAAGGCGAGUGAGGUCU	AGUGACCU	31618
7983	3047	UGUGAUC G CCAAGUUG	13244	CAACUUGG GCCGAAAGGCGAGUGAGGUCU	GAUCCACA	31619
7988	3042	AUCGCCAA G UUGUUCU	13245	AAGAACA GCCGAAAGGCGAGUGAGGUCU	UUGGCGAU	31620
7991	3039	GCCAAGU G UUCUUGAC	13246	GUCAAGAA GCCGAAAGGCGAGUGAGGUCU	AACUUGGC	31621
8001	3029	UCUUGACA G CCGUCCA	13247	UGGAACGG GCCGAAAGGCGAGUGAGGUCU	UGUCAAGA	31622
8004	3026	UGACAGCC G UUCAUUG	13248	CAUUGGAA GCCGAAAGGCGAGUGAGGUCU	GGCUUGCA	31623
8021	3009	AUCUUGA G UCACAUUC	13249	GAUUGUGA GCCGAAAGGCGAGUGAGGUCU	UCGAAGAU	31624
8031	2999	CACAUCA G UUGUGUUG	13250	CAACACAA GCCGAAAGGCGAGUGAGGUCU	UGAAUGUG	31625
8034	2996	AUUCAGU G UGUUGCUC	13251	GAGCAACA GCCGAAAGGCGAGUGAGGUCU	AACUGAAU	31626
8036	2994	UCAGUUGU G UUGUCUC	13252	GAGAGCAA GCCGAAAGGCGAGUGAGGUCU	ACAACUGA	31627
8039	2991	GUUGUGU G CUCUCUCU	13253	AGAGAGAG GCCGAAAGGCGAGUGAGGUCU	AACACAAC	31628
8067	2963	ACAUCCGA G UGUGGUG	13254	CACCAGCA GCCGAAAGGCGAGUGAGGUCU	UCGGAUGU	31629
8069	2961	AUCCGAGU G CUGGUGAG	13255	CUCACCAG GCCGAAAGGCGAGUGAGGUCU	ACUCGGAU	31630
8073	2957	GAGUCUG G UGAGACCA	13256	UGGUCUCA GCCGAAAGGCGAGUGAGGUCU	CAGCACUC	31631
8105	2925	ACUUCUA G CUAUUCA	13257	UGGAUUG GCCGAAAGGCGAGUGAGGUCU	UUAGAAGU	31632
8115	2915	UAUUCCAA G CGCGAUC	13258	GAAUCGCG GCCGAAAGGCGAGUGAGGUCU	UUGGAUAU	31633
8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAAUCG GCCGAAAGGCGAGUGAGGUCU	GCUUGGAA	31634

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8127	2903	GAUUCUGA G UCGGACAU	13260	AUGUCCGA GCCGAAAGGCGAGUGAGGUCU UCAGAAUC	31635
8142	2888	AUUCUUUG G UCUCGGA	13261	UCCGAGAG GCCGAAAGGCGAGUGAGGUCU CAAGGAAU	31636
8166	2864	CCACAAAG G UGUUGUUG	13262	CAACAACA GCCGAAAGGCGAGUGAGGUCU CUUUGUGG	31637
8168	2862	ACAAAGGU G UUGUGGC	13263	GCCAAACA GCCGAAAGGCGAGUGAGGUCU ACCUUUGU	31638
8171	2859	AAGGUGUU G UUGGCGAG	13264	CUCGCCAA GCCGAAAGGCGAGUGAGGUCU AACACCUU	31639
8175	2855	UGUUGUUG G CGAGUUCU	13265	AGAACUCG GCCGAAAGGCGAGUGAGGUCU CAACAACA	31640
8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA GCCGAAAGGCGAGUGAGGUCU UCGCCAAC	31641
8185	2845	GAGUUCUG G UGCAAAUA	13267	UAUUUGCA GCCGAAAGGCGAGUGAGGUCU CAGAACUC	31642
8187	2843	GUUCUGGU G CAAAUAAA	13268	UUUAUUUG GCCGAAAGGCGAGUGAGGUCU ACCAGAAC	31643
8211	2819	UUCCCAG G CCUCCAG	13269	CUGGAAGG GCCGAAAGGCGAGUGAGGUCU CUGGGGAA	31644
8219	2811	GCCUUCGA G CCAAUUUC	13270	GAAAUUGG GCCGAAAGGCGAGUGAGGUCU UGGAAGGC	31645
8238	2792	AUUUUUCC G UGGUGGCG	13271	CGCCACCA GCCGAAAGGCGAGUGAGGUCU GGAAAAAU	31646
8241	2789	UUUCCGUG G UGGCGGUG	13272	CACCGCCA GCCGAAAGGCGAGUGAGGUCU CACGGAAA	31647
8244	2786	CCGUGGUG G CGGUGAGG	13273	CCUACCG GCCGAAAGGCGAGUGAGGUCU CACCACCG	31648
8247	2783	UGGUGGCG G UGAGGCGU	13274	ACGCCUCA GCCGAAAGGCGAGUGAGGUCU CGCCACCA	31649
8252	2778	GCGUGAG G CGUUUAGG	13275	CCUAAACG GCCGAAAGGCGAGUGAGGUCU CUCACCGC	31650
8254	2776	GGUGAGGC G UUUAGGUG	13276	CACCUAAA GCCGAAAGGCGAGUGAGGUCU GCCUCACC	31651
8260	2770	GCGUUUAG G UGCUGACU	13277	AGUCAGCA GCCGAAAGGCGAGUGAGGUCU CUAAACGC	31652
8262	2768	GUUUAGGU G CUGACUUG	13278	CAAGUCAG GCCGAAAGGCGAGUGAGGUCU ACCUAAAC	31653
8270	2760	GCUGACUU G UACAUUC	13279	GGAAUGUA GCCGAAAGGCGAGUGAGGUCU AAGUCAGC	31654
8284	2746	UCCCUCCU G UUCUCUAA	13280	UUGAGAAA GCCGAAAGGCGAGUGAGGUCU AGGAGGGA	31655
8306	2724	ACACUAG G UCCACACC	13281	GGUGUGGA GCCGAAAGGCGAGUGAGGUCU CUUAGUGU	31656
8331	2699	UCAAAGA G UGUUCAGC	13282	CGUGAACA GCCGAAAGGCGAGUGAGGUCU UCUUUUGA	31657
8333	2697	AAAAGAGU G UUCAGCUC	13283	GAGCUGAA GCCGAAAGGCGAGUGAGGUCU ACUCUUUU	31658
8338	2692	AGUGUUGA G CUCGUCCU	13284	AGGACGAG GCCGAAAGGCGAGUGAGGUCU UGAACACU	31659
8342	2688	UUCAGCUC G UCCUUCAC	13285	GUGAAGGA GCCGAAAGGCGAGUGAGGUCU GAGCUGAA	31660
8352	2678	CCUUCACU G CUUCCAC	13286	GUGGGAAG GCCGAAAGGCGAGUGAGGUCU AGUGAAGG	31661
8368	2662	CAUUUGAU G CUCCAGUC	13287	GACUGGAG GCCGAAAGGCGAGUGAGGUCU AUCAAUUG	31662
8374	2656	AUGCUCGA G UCUGGAAA	13288	UUUCCAGA GCCGAAAGGCGAGUGAGGUCU UGGAGCAU	31663
8389	2641	AACUGAUC G UAGACCGC	13289	GCGGUCUA GCCGAAAGGCGAGUGAGGUCU GAUCAGUU	31664
8396	2634	CGUAGACC G CACACUCC	13290	GGAGUGUG GCCGAAAGGCGAGUGAGGUCU GGUCUACG	31665
8415	2615	CCUUUUGA G CUUUCUGA	13291	UCAGAAAG GCCGAAAGGCGAGUGAGGUCU UCAUAAGG	31666
8433	2597	UGAUUCUG G CUAGCCU	13292	AGGCCUAG GCCGAAAGGCGAGUGAGGUCU CAAGAUA	31667
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GCCGAAAGGCGAGUGAGGUCU CUAGCCAA	31668
8443	2587	UAGGCCUU G UGGCGUUU	13294	AAACUAGA GCCGAAAGGCGAGUGAGGUCU AAGGCCUA	31669
8446	2584	GCCUUGUG G CGUUUCAG	13295	CUGAAACG GCCGAAAGGCGAGUGAGGUCU CACAAGGC	31670
8448	2582	CUUGUGGC G UUUCAGGG	13296	CCUUGAAA GCCGAAAGGCGAGUGAGGUCU GCCACAAG	31671
8456	2574	GUUUUCAGG G UAAUACUU	13297	AAGUAUUA GCCGAAAGGCGAGUGAGGUCU CCUGAAAC	31672
8465	2565	UAAUACUU G UACCGGUC	13298	GACCGGUA GCCGAAAGGCGAGUGAGGUCU AAGUAUUA	31673
8471	2559	UUGUACCG G UCCAUCCA	13299	UGUAUGGA GCCGAAAGGCGAGUGAGGUCU CGGUACAA	31674
8481	2549	CCAUCCAA G CCUCCACA	13300	UUGGAGG GCCGAAAGGCGAGUGAGGUCU UUGGAUGG	31675
8495	2535	ACAUCAUU G UGUUGAA	13301	UUCAUACA GCCGAAAGGCGAGUGAGGUCU AAUGAUGU	31676
8497	2533	AUCAUUGU G UAUGAACA	13302	UGUUCUAU GCCGAAAGGCGAGUGAGGUCU ACAUUGAU	31677
8524	2506	ACAUCUCA G CUCUUGCC	13303	GGCAAGAG GCCGAAAGGCGAGUGAGGUCU UGAGAUGU	31678
8530	2500	CAGCUCUU G CCGGCUGA	13304	UCAGCCCG GCCGAAAGGCGAGUGAGGUCU AAGAGCUG	31679
8534	2496	UCUUGCCG G CUGAUGUC	13305	GACAUACG GCCGAAAGGCGAGUGAGGUCU CGGCAAGA	31680
8540	2490	CGGCUGAU G UCUAUGGC	13306	GCCAUAAG GCCGAAAGGCGAGUGAGGUCU AUCAGCCG	31681
8547	2483	UGUCUAUG G CACACCCA	13307	UGGGUGUG GCCGAAAGGCGAGUGAGGUCU CAUAGACA	31682
8556	2474	CACACCCA G UGUCAGCG	13308	CGCUGACA GCCGAAAGGCGAGUGAGGUCU UGGGUGUG	31683
8558	2472	CACCCAGU G UCAGCGUG	13309	CACGCUGA GCCGAAAGGCGAGUGAGGUCU ACUGGGUG	31684
8562	2468	CAGUGUCA G CGUGCACG	13310	CGUGCACG GCCGAAAGGCGAGUGAGGUCU UGACACUG	31685
8564	2466	GUGUCAGC G UGCACGUU	13311	AACGUGCA GCCGAAAGGCGAGUGAGGUCU GCUACAC	31686
8566	2464	GUACGGU G CACGUUCA	13312	UGAACGUG GCCGAAAGGCGAGUGAGGUCU ACGUGAC	31687
8570	2460	GCGUGCAC G UUCACGGA	13313	UCCGUGAA GCCGAAAGGCGAGUGAGGUCU GUGCACGC	31688
8587	2443	GAGGAAGA G CAGAACUC	13314	GAGUUCUG GCCGAAAGGCGAGUGAGGUCU UCUUCUC	31689
8604	2426	CUCCAACU G CGAGAAAC	13315	GUUUCUG GCCGAAAGGCGAGUGAGGUCU AGUUGAG	31690
8613	2417	CGAGAAAC G UGAGAGCU	13316	AGCUCUCA GCCGAAAGGCGAGUGAGGUCU GUUUCUG	31691
8619	2411	ACUGAGA G CUAUGGAC	13317	GUCCAUG GCCGAAAGGCGAGUGAGGUCU UCUCACGU	31692
8637	2393	UAUCACGA G CAUUGAUG	13318	CAUCAUUG GCCGAAAGGCGAGUGAGGUCU UCGUAUA	31693
8645	2385	GCAUUGAU G CCAUCCA	13319	UGGAUGGG GCCGAAAGGCGAGUGAGGUCU AUCAAUGC	31694
8664	2366	ACAGGAGA G CCCCAGC	13320	GCUGGGGG GCCGAAAGGCGAGUGAGGUCU UCUCUGU	31695
8671	2359	AGCCCCCA G CAAUCCU	13321	AAGGAUUG GCCGAAAGGCGAGUGAGGUCU UGGGGUCU	31696

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8680	2350	CAAUCCUU G CGUUAUCC	13322	GGAUAAACG GCCGAAAGGCGAGUGAGGUCU AAGGAUUG	31697
8682	2348	AUCCUUGC G UUAUCCAG	13323	CUGGAUAA GCCGAAAGGCGAGUGAGGUCU GCAAGGAU	31698
8696	2334	CAGGACAU G CCUCCGAA	13324	UUCGGAGG GCCGAAAGGCGAGUGAGGUCU AUGUCCUG	31699
8707	2323	UCCGAACA G UGAGCGGA	13325	UCCGCUCA GCCGAAAGGCGAGUGAGGUCU UGUUCGGA	31700
8711	2319	AACAGUGA G CGGAAUGC	13326	GCAUUC CG GCCGAAAGGCGAGUGAGGUCU UCACUGUU	31701
8718	2312	AGCGGAU G CUCCUCCG	13327	CGGAGGAG GCCGAAAGGCGAGUGAGGUCU AUUCCGCU	31702
8742	2288	GAUGGACA G CCUCCCA	13328	UGGGAAGG GCCGAAAGGCGAGUGAGGUCU UGUCCAU	31703
8757	2273	CAACUGAG G UGAACACC	13329	GGUGUUCA GCCGAAAGGCGAGUGAGGUCU CUCAGUUG	31704
8783	2247	GAUCCAAA G UCCCAAGC	13330	GCUUGGGA GCCGAAAGGCGAGUGAGGUCU UUGGAUC	31705
8790	2240	AGUCCCAA G CUGUGUCU	13331	AGACACAG GCCGAAAGGCGAGUGAGGUCU UUGGACU	31706
8793	2237	CCCAAGCU G UGUCUCCU	13332	AGGAGACA GCCGAAAGGCGAGUGAGGUCU AGCUUGGG	31707
8795	2235	CAAGCUGU G UCUCUAG	13333	CUAGGAGA GCCGAAAGGCGAGUGAGGUCU ACAGCUUG	31708
8805	2225	CUCCUAGA G CGGCUAGU	13334	ACUAGCCG GCCGAAAGGCGAGUGAGGUCU UCUAGGAG	31709
8808	2222	CUAGAGCG G CUAGUCUC	13335	GAGACUAG GCCGAAAGGCGAGUGAGGUCU CGCUCUAG	31710
8812	2218	AGCGGCUA G UCUCUGCG	13336	CGCAGAGA GCCGAAAGGCGAGUGAGGUCU UAGCCGCU	31711
8818	2212	UAGUCUCU G CGCUCCUU	13337	AAGGAGCG GCCGAAAGGCGAGUGAGGUCU AGAGACUA	31712
8820	2210	GUUCUCGC G CUCCUUG	13338	CAAGAGCA GCCGAAAGGCGAGUGAGGUCU AGCAGAC	31713
8832	2198	CUUUGAGG G UGGUUGUA	13339	UACAACCA GCCGAAAGGCGAGUGAGGUCU CCUCAAG	31714
8835	2195	UGAGGGUG G UUGUAAAG	13340	CUUUACAA GCCGAAAGGCGAGUGAGGUCU CACCCUCA	31715
8838	2192	GGGUGGUU G UAAAGGCU	13341	AGCCUUUA GCCGAAAGGCGAGUGAGGUCU AACACACC	31716
8844	2186	UUGUAAAG G CUUUGCCA	13342	UGGCAAG GCCGAAAGGCGAGUGAGGUCU CUUUACAA	31717
8849	2181	AAGGCUUU G CCAAUGCU	13343	AGCAUUG GCCGAAAGGCGAGUGAGGUCU AAAGCUU	31718
8855	2175	UUGCCAAU G CUGCUUCC	13344	GGAAGCAG GCCGAAAGGCGAGUGAGGUCU UAUGGCAA	31719
8858	2172	CCAAUGCU G CUUCCAGA	13345	UCUGGAAG GCCGAAAGGCGAGUGAGGUCU AGCAUUG	31720
8870	2160	CCAGACUU G UGCCAAUG	13346	CAUUGGCA GCCGAAAGGCGAGUGAGGUCU AAGUCUG	31721
8872	2158	AGACUUGU G CCAAUGGU	13347	ACCAUUG GCCGAAAGGCGAGUGAGGUCU ACAAGUCU	31722
8879	2151	UGCCAAUG G UGAUUGAU	13348	AUCAUUA GCCGAAAGGCGAGUGAGGUCU CAUUGGCA	31723
8890	2140	AUUGAUCU G UUGUUCUC	13349	GAGAACA GCCGAAAGGCGAGUGAGGUCU AGAUCAA	31724
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GCCGAAAGGCGAGUGAGGUCU AACGAAUC	31725
8903	2127	UCUCCUCU G CCCACCAC	13351	GUGGUGGG GCCGAAAGGCGAGUGAGGUCU AGAGGAGA	31726
8915	2115	ACCACUUA G UAUGAGUC	13352	GACUCAUA GCCGAAAGGCGAGUGAGGUCU AUAGUGGU	31727
8921	2109	AUGUAUGA G UCUCAAA	13353	UUUGGAGA GCCGAAAGGCGAGUGAGGUCU UCAUACAU	31728
8932	2098	UCCAAAGG G UGGUUGCA	13354	UGGAACCA GCCGAAAGGCGAGUGAGGUCU CCUUUGGA	31729
8935	2095	AAAGGGUG G UUCCAAUU	13355	AAUUGGAA GCCGAAAGGCGAGUGAGGUCU CACCUUU	31730
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAACG GCCGAAAGGCGAGUGAGGUCU UAAGGUCC	31731
8960	2070	ACCUUAGC G UUGGCGU	13357	ACGGCCAA GCCGAAAGGCGAGUGAGGUCU GCUAAGGU	31732
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GCCGAAAGGCGAGUGAGGUCU CAACGCUA	31733
8967	2063	CGUUGGCC G UGGCCACU	13359	AGUGGCCA GCCGAAAGGCGAGUGAGGUCU GGCCAACG	31734
8970	2060	UGGCCGUG G CCACUGAA	13360	UUCAGUGG GCCGAAAGGCGAGUGAGGUCU CACGGCCA	31735
8987	2043	ACAAAAGG G UUGACAGU	13361	ACUGUCAA GCCGAAAGGCGAGUGAGGUCU CCUUUUGU	31736
8994	2036	GGUUGACA G UGACCAAU	13362	AUUGGUCA GCCGAAAGGCGAGUGAGGUCU UGUCAACC	31737
9005	2025	ACCAAUUC G CCCACUGG	13363	CCAGUGGG GCCGAAAGGCGAGUGAGGUCU AGAUUGGU	31738
9013	2017	GCCACUG G CGUAGGU	13364	ACCUAACG GCCGAAAGGCGAGUGAGGUCU CAGUGGCC	31739
9015	2015	CCACUGGC G UUAGGUCG	13365	CGACCUAA GCCGAAAGGCGAGUGAGGUCU GCCAGUGG	31740
9020	2010	GGCGUUG G UCGUUCAA	13366	UUGAACGA GCCGAAAGGCGAGUGAGGUCU CUAACGCC	31741
9023	2007	GUUAGGUC G UTCAAUGA	13367	UCAUUGAA GCCGAAAGGCGAGUGAGGUCU GACCUAAC	31742
9033	1997	UCAUUGAA G CCACUGAC	13368	GUUAGUGG GCCGAAAGGCGAGUGAGGUCU UUCAUUGA	31743
9056	1974	GGAAAUUU G CAAGGUCC	13369	GGACCUUG GCCGAAAGGCGAGUGAGGUCU AAAGUUC	31744
9061	1969	UUUGCAAG G UCCAUCGG	13370	CGGAUGGA GCCGAAAGGCGAGUGAGGUCU CUUGCAA	31745
9069	1961	GUCCAUGC G UGCCAGUG	13371	CACUGGCA GCCGAAAGGCGAGUGAGGUCU GGAUGGAC	31746
9071	1959	CCAUCUGG G CCAGUGUA	13372	UACACUGG GCCGAAAGGCGAGUGAGGUCU ACGGAUGG	31747
9075	1955	CCGUGCCA G UGUACUGC	13373	GCAGUACA GCCGAAAGGCGAGUGAGGUCU UGGCACGG	31748
9077	1953	GUGCCAGU G UACUGCAA	13374	UUGCAGUA GCCGAAAGGCGAGUGAGGUCU ACUGGCAC	31749
9082	1948	AGUGUACU G CAAUUGCA	13375	UGGAUUG GCCGAAAGGCGAGUGAGGUCU AGUACACU	31750
9099	1931	ACACCACA G UGCCGUGA	13376	UCACGGCA GCCGAAAGGCGAGUGAGGUCU UGUGUGU	31751
9101	1929	ACCACAGU G CCGUGACC	13377	GGUACCGG GCCGAAAGGCGAGUGAGGUCU ACUGUGGU	31752
9104	1926	ACAGUGCC G UGACCUUGU	13378	ACAGGUCA GCCGAAAGGCGAGUGAGGUCU GGCACUGU	31753
9111	1919	CGUGACCU G UGUUGCG	13379	CGCAGACA GCCGAAAGGCGAGUGAGGUCU UGGCACCG	31754
9113	1917	UGACCUUG G UCUUGCGG	13380	CCCGCAGA GCCGAAAGGCGAGUGAGGUCU ACAGGUCA	31755
9117	1913	CUGUGUCU G CGGGAGUC	13381	GACUCCCG GCCGAAAGGCGAGUGAGGUCU AGACACAG	31756
9123	1907	CUGCGGGA G UCCCAAGA	13382	UCUUGGGA GCCGAAAGGCGAGUGAGGUCU UCCCGCAG	31757
9141	1889	ACUUGAAA G CCUUGGAA	13383	UUCAAAGG GCCGAAAGGCGAGUGAGGUCU UUUAAGU	31758

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9155	1875	GAACAGAC G CCAUAGGU	13384	ACCUAUGG GCCGAAAGGCGAGUGAGGUCU	GUCUGUUC	31759
9162	1868	CGCCAUAG G UUGUUC	13385	GGGAACAA GCCGAAAGGCGAGUGAGGUCU	CUAUGGCG	31760
9165	1865	CAUAGGUU G UUCCCUUC	13386	GAAGGGAA GCCGAAAGGCGAGUGAGGUCU	AACCUAUG	31761
9178	1852	CUUCAACU G CAAUUUUU	13387	AAAAAUUG GCCGAAAGGCGAGUGAGGUCU	AGUUGAAG	31762
9219	1811	GACCCGAC G UCAACUUG	13388	CAAGUUGA GCCGAAAGGCGAGUGAGGUCU	GUCGGGUC	31763
9231	1799	ACUUGACA G UGUUGCUU	13389	AAGCAACA GCCGAAAGGCGAGUGAGGUCU	UGUCAAGU	31764
9233	1797	UUGACAGU G UUGCUUGA	13390	UCAAGCAA GCCGAAAGGCGAGUGAGGUCU	ACUGUCAA	31765
9236	1794	ACAGUGUU G CUUGAAAA	13391	UUUUAAG GCCGAAAGGCGAGUGAGGUCU	AACACUGU	31766
9258	1772	CAGGAAUG G CUCCAGCC	13392	GGCUGGAG GCCGAAAGGCGAGUGAGGUCU	CAUUCUUG	31767
9264	1766	UGGCUCCA G CCAAAGCU	13393	AGCUUUGG GCCGAAAGGCGAGUGAGGUCU	UGGAGCCA	31768
9270	1760	CAGCCAAA G CUUGAUGC	13394	GCAUCAAG GCCGAAAGGCGAGUGAGGUCU	UUUGGCUU	31769
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCUCUG GCCGAAAGGCGAGUGAGGUCU	AUCAAGCU	31770
9282	1748	GAUGCAGA G CUCCUCU	13396	AGAGGGAG GCCGAAAGGCGAGUGAGGUCU	UCUGCAUC	31771
9292	1738	UCCUCUUG G UGAGCCCA	13397	UGGGCUCA GCCGAAAGGCGAGUGAGGUCU	AAGAGGGA	31772
9296	1734	UCUUGUGA G CCCAAGUC	13398	GCAUUGGG GCCGAAAGGCGAGUGAGGUCU	UCACAAGA	31773
9303	1727	AGCCCAAU G CUUACACA	13399	UGUGAUAG GCCGAAAGGCGAGUGAGGUCU	AUUGGGCU	31774
9316	1714	CACAGACU G CUUCUGUG	13400	CCACGAAG GCCGAAAGGCGAGUGAGGUCU	GUUAAUGG	31775
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GCCGAAAGGCGAGUGAGGUCU	GAAGCAGU	31776
9324	1706	GCUCUGUG G CGUGUGGU	13402	ACCACACG GCCGAAAGGCGAGUGAGGUCU	CACGAAGC	31777
9326	1704	UUGUGGCG G UGUGGUUC	13403	GAACCACA GCCGAAAGGCGAGUGAGGUCU	GCCACGAA	31778
9328	1702	CGUGGCGU G UGGUUCU	13404	AGGAACCA GCCGAAAGGCGAGUGAGGUCU	ACGCCACG	31779
9331	1699	GGCGUGUG G UUCUCA	13405	UUGAGGAA GCCGAAAGGCGAGUGAGGUCU	CACACGCC	31780
9351	1679	CCAUUAAC G UCUCUCUG	13406	CAGAGAGA GCCGAAAGGCGAGUGAGGUCU	GUUAAUGG	31781
9359	1671	GUCUCUCU G UUCCUCCA	13407	UGGAGGAA GCCGAAAGGCGAGUGAGGUCU	AGAGAGAC	31782
9372	1658	UCCACACA G UACUCCA	13408	UGGAAGUA GCCGAAAGGCGAGUGAGGUCU	UGUGUGGA	31783
9381	1649	UACUCCA G CACUGCUC	13409	GAGCAGUG GCCGAAAGGCGAGUGAGGUCU	UGAAAGUA	31784
9386	1644	CCAGCACU G CUCCAAGG	13410	CCUUGGAG GCCGAAAGGCGAGUGAGGUCU	AGUGCUGG	31785
9398	1632	CAAGGGAG G UUGAGGUC	13411	GACCUCAA GCCGAAAGGCGAGUGAGGUCU	CUCCCUUG	31786
9404	1626	AGGUUGAG G UCCAUGAA	13412	UUAUGGAA GCCGAAAGGCGAGUGAGGUCU	CUCAACCU	31787
9435	1595	CCAAGAAC G UCUUUGUU	13413	AACAAAGA GCCGAAAGGCGAGUGAGGUCU	GUUCUUGG	31788
9441	1589	ACGUCUUU G UUCAACA	13414	UGUUGGAA GCCGAAAGGCGAGUGAGGUCU	AAAGACGU	31789
9450	1580	UUCAACA G UCAUACG	13415	CGUGAUGA GCCGAAAGGCGAGUGAGGUCU	UGUUGGAA	31790
9458	1572	GUCAUCAC G UAGUAGC	13416	GCAUACUA GCCGAAAGGCGAGUGAGGUCU	GUGAUGAC	31791
9461	1569	AUCACGUA G UAGCAUU	13417	AAUGCAUA GCCGAAAGGCGAGUGAGGUCU	UACGUGAU	31792
9465	1565	CGUAGUAG G CAUUGGUG	13418	CACCAUGG GCCGAAAGGCGAGUGAGGUCU	AUACUACG	31793
9471	1559	AUGCAUUG G UGUCAAUC	13419	GAUUGACA GCCGAAAGGCGAGUGAGGUCU	CAAUGCAU	31794
9473	1557	GCAUUGGU G UCAAUCCC	13420	GGGAUUGA GCCGAAAGGCGAGUGAGGUCU	ACCAAUUC	31795
9487	1543	CCUGAGAC G UGGUUCAC	13421	GUGAACCA GCCGAAAGGCGAGUGAGGUCU	GGUCAGGG	31796
9490	1540	UGACCGUG G UUCACAGU	13422	ACUGUGAA GCCGAAAGGCGAGUGAGGUCU	CACGUGUA	31797
9497	1533	GGUUCACA G UCCACUGU	13423	ACAGUGGA GCCGAAAGGCGAGUGAGGUCU	UGUGAAC	31798
9504	1526	AGUCCACU G UCACCUU	13424	AGAGGUGA GCCGAAAGGCGAGUGAGGUCU	AGUGGACU	31799
9526	1504	UUCUCCA G CUUAGUG	13425	CACUAAAG GCCGAAAGGCGAGUGAGGUCU	UUGGAGAA	31800
9532	1498	AAGCUUUA G UGUGUAG	13426	CAUACACA GCCGAAAGGCGAGUGAGGUCU	UAAAGCUU	31801
9534	1496	GCUUUAGJ G UGUUAGAA	13427	UUCAUACA GCCGAAAGGCGAGUGAGGUCU	ACUAAAGC	31802
9536	1494	UUUAGUGU G UAUGAAGG	13428	CCUUCUAU GCCGAAAGGCGAGUGAGGUCU	ACACUAAA	31803
9544	1486	GUUUAAG G CGCCGAG	13429	CUGCGGCG GCCGAAAGGCGAGUGAGGUCU	CUUUAUAC	31804
9546	1484	AUGAAGGC G CCGCAGGA	13430	UCCUGCGG GCCGAAAGGCGAGUGAGGUCU	GCCUUAU	31805
9549	1481	AAGGCGCC G CAGGAGUG	13431	CACUCCUG GCCGAAAGGCGAGUGAGGUCU	GGCGCCUU	31806
9555	1475	CCGAGGA G UGAUGCUG	13432	CAGCAUCA GCCGAAAGGCGAGUGAGGUCU	UCCUGCGG	31807
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGAUCAGG GCCGAAAGGCGAGUGAGGUCU	AUCACUCC	31808
9573	1457	AUCUCCU G CUUGAGUG	13434	CACUCAGG GCCGAAAGGCGAGUGAGGUCU	AGGGAGAU	31809
9579	1451	CUGCCUGA G UGGCUCCA	13435	UGGAGCCA GCCGAAAGGCGAGUGAGGUCU	CACGACAG	31810
9582	1448	CCUGAGUG G CUCCAACC	13436	GGUUGGAG GCCGAAAGGCGAGUGAGGUCU	CACUCAGG	31811
9592	1438	UCCAACCU G UGUGGAGU	13437	ACUCCACA GCCGAAAGGCGAGUGAGGUCU	AGGUUGGA	31812
9594	1436	CAACCUUG G UGGAGUAG	13438	CUACUCCA GCCGAAAGGCGAGUGAGGUCU	ACAGGUUG	31813
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACUA GCCGAAAGGCGAGUGAGGUCU	UCCACACA	31814
9602	1428	GUGGAGUA G UUCUGUG	13440	CACGGAAA GCCGAAAGGCGAGUGAGGUCU	UACUCCAC	31815
9608	1422	UAGUUUCC G UGCAGUC	13441	GAGUCGCA GCCGAAAGGCGAGUGAGGUCU	GGAACUA	31816
9610	1420	GUUCCGU G CGACUCCA	13442	UGGAGUCG GCCGAAAGGCGAGUGAGGUCU	ACGGAAAC	31817
9621	1409	ACUCCACA G UAGUUUGU	13443	ACCAACUA GCCGAAAGGCGAGUGAGGUCU	UGUGGAGU	31818
9624	1406	CCACAGUA G UUGGUCCA	13444	UGGACCAA GCCGAAAGGCGAGUGAGGUCU	UACUGUGG	31819
9628	1402	AGUAGUUG G UCAUGGA	13445	UCCAUGGA GCCGAAAGGCGAGUGAGGUCU	CAACUACU	31820

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9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGUGG GCCGAAAGGCGAGUGAGGUCU	CAUUUUUG	31821
9653	1377	GCCACUUC G UACUUGAU	13447	AUCAAGUA GCCGAAAGGCGAGUGAGGUCU	GAAGUGGC	31822
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CAUCUUGA	31823
9690	1340	UUCCUAUU G CCUUGGUA	13449	UACCAAGG GCCGAAAGGCGAGUGAGGUCU	AAUAGGAA	31824
9696	1334	UUGCCUUG G UAGAGCAG	13450	CUGCUCUA GCCGAAAGGCGAGUGAGGUCU	CAAGGCAA	31825
9701	1329	UUGGUAGA G CAGGCAA	13451	UUUGCCUG GCCGAAAGGCGAGUGAGGUCU	UCUACCAA	31826
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAAUUGG GCCGAAAGGCGAGUGAGGUCU	CUGCUCUA	31827
9714	1316	CAAAUUGG G CGCAUGUG	13453	CACAUGCG GCCGAAAGGCGAGUGAGGUCU	CAAAUUGG	31828
9716	1314	AAUUGGCG G CAUGUGUC	13454	GACACAUG GCCGAAAGGCGAGUGAGGUCU	GCCAAAUU	31829
9720	1310	UGGCGCAU G UGUCAAUG	13455	CAUUGACA GCCGAAAGGCGAGUGAGGUCU	AUGCGCCA	31830
9722	1308	GCGCAUGU G UCAUUGCU	13456	AGCAUUGA GCCGAAAGGCGAGUGAGGUCU	ACAUGCGC	31831
9728	1302	GUGUCAAU G CUUCCUUU	13457	AAAGGAAG GCCGAAAGGCGAGUGAGGUCU	AUUGACAC	31832
9737	1293	CUUCCUUU G CCAAAUAA	13458	UUAUUUGG GCCGAAAGGCGAGUGAGGUCU	AAAGGAAG	31833
9749	1281	AAUAAUCC G CAGCCGUU	13459	AACGGCUG GCCGAAAGGCGAGUGAGGUCU	GGAUUAUU	31834
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACGG GCCGAAAGGCGAGUGAGGUCU	UGCGGAUU	31835
9755	1275	CCGCAGCC G UUGCCCCA	13461	UGGGGCAA GCCGAAAGGCGAGUGAGGUCU	GGCUGCGG	31836
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCUGGGG GCCGAAAGGCGAGUGAGGUCU	AACGGCUG	31837
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG GCCGAAAGGCGAGUGAGGUCU	UGGGGCAA	31838
9770	1260	CAGCCCUU G UCCACCAC	13464	GUGGUGGA GCCGAAAGGCGAGUGAGGUCU	AGGGGCUG	31839
9784	1246	CACUCCUU G UCUGCACA	13465	UGUGCAGA GCCGAAAGGCGAGUGAGGUCU	AAGGAGUG	31840
9788	1242	CCUUGUCU G CACACAAA	13466	UUUGUGUG GCCGAAAGGCGAGUGAGGUCU	AGACAAGG	31841
9798	1232	ACAACAAA G CUGGGUCA	13467	UGACCCAG GCCGAAAGGCGAGUGAGGUCU	UUUUGUGU	31842
9803	1227	AAAGCUGG G UCAGCACG	13468	CGUGCUGA GCCGAAAGGCGAGUGAGGUCU	CCAGCUUU	31843
9807	1223	CUGGGUCA G CACGUUUG	13469	CAAACGUG GCCGAAAGGCGAGUGAGGUCU	UGACCCAG	31844
9811	1219	GUCAGCAC G UUUGUCAU	13470	AUGACAAA GCCGAAAGGCGAGUGAGGUCU	GUGCUGAC	31845
9815	1215	GCACGUUU G UCAUUGUG	13471	CACAAUGA GCCGAAAGGCGAGUGAGGUCU	AAACGUGC	31846
9821	1209	UUGUCAUU G UGAGCUUC	13472	GAAGCUCA GCCGAAAGGCGAGUGAGGUCU	AAUGACAA	31847
9825	1205	CAUUGUGA G CUUCUCCC	13473	GGGAGAAG GCCGAAAGGCGAGUGAGGUCU	UCACAAUG	31848
9837	1193	CUCCCAUG G UCGGGCAC	13474	GUGCCCGA GCCGAAAGGCGAGUGAGGUCU	CCAGGAGG	31849
9842	1188	AUGGUCGG G CACGCAGC	13475	GCUGGGUG GCCGAAAGGCGAGUGAGGUCU	CCGACCAU	31850
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAAGCUG GCCGAAAGGCGAGUGAGGUCU	GUGCCCGA	31851
9849	1181	GGCAGCA G CUUUGGUG	13477	CACCAAAG GCCGAAAGGCGAGUGAGGUCU	UGCGUGCC	31852
9855	1175	CAGCUUUG G UGAGAGAG	13478	UCUCUCCA GCCGAAAGGCGAGUGAGGUCU	CAAGCUG	31853
9866	1164	GAGAGAU C GUGACGGU	13479	ACCUGUCG GCCGAAAGGCGAGUGAGGUCU	GAUCUCUC	31854
9873	1157	CGCUGACG G UAGCCAAA	13480	UUUGGCUA GCCGAAAGGCGAGUGAGGUCU	CGUCACGC	31855
9876	1154	UGACGUUA G CCAAAUAG	13481	CUAUUUGG GCCGAAAGGCGAGUGAGGUCU	UACCGUCA	31856
9884	1146	GCCAAUA G CAAUAACU	13482	AGUUUAUG GCCGAAAGGCGAGUGAGGUCU	UAUUUGGC	31857
9893	1137	CAAUAAU C CGGACCUC	13483	GAGGUCCG GCCGAAAGGCGAGUGAGGUCU	AGUUUAUG	31858
9903	1127	GGACCUCU G CCAGGUUG	13484	CAACCUGG GCCGAAAGGCGAGUGAGGUCU	AGAGGUCC	31859
9908	1122	UCUGCCAG G UUGACCGC	13485	GCGGUCAA GCCGAAAGGCGAGUGAGGUCU	CUGGCAGA	31860
9915	1115	GGUUGACC G CCUCCAUA	13486	UAUGGAGG GCCGAAAGGCGAGUGAGGUCU	GGUCAACC	31861
9945	1085	CAUCGAUG G UAGGCUUG	13487	CAAGCCUA GCCGAAAGGCGAGUGAGGUCU	CAUCGAUG	31862
9949	1081	GAUGGUAG G CUUGUCCU	13488	AGGACAAG GCCGAAAGGCGAGUGAGGUCU	CUACCAUC	31863
9953	1077	GUAGGCUU G UCCUUAGA	13489	UCUAAGGA GCCGAAAGGCGAGUGAGGUCU	AAGCCUAC	31864
9969	1061	ACAUGAUA G UCACGCAG	13490	CUGCGUGA GCCGAAAGGCGAGUGAGGUCU	UAUCAUGU	31865
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCUG GCCGAAAGGCGAGUGAGGUCU	GUGACUAU	31866
9977	1053	GUCACGCA G CUGUGGCC	13492	GGCGACAG GCCGAAAGGCGAGUGAGGUCU	UGCGUGAC	31867
9980	1050	ACGCAGCU G UCGCCUUC	13493	GAAGGCGA GCCGAAAGGCGAGUGAGGUCU	AGCUGCGU	31868
9983	1047	CAGCUGUC G CCUUCGAG	13494	CUCGAAGG GCCGAAAGGCGAGUGAGGUCU	GACAGCUG	31869
10008	1022	CCACCCAU G UUGCUCCA	13495	UGGAGCAA GCCGAAAGGCGAGUGAGGUCU	AUGGGUGG	31870
10011	1019	CCCAUGUU G CUCCAGAC	13496	GUCUGGAG GCCGAAAGGCGAGUGAGGUCU	AACAUGGG	31871
10034	996	UCCAAGAA G UCUCUGUU	13497	AACAGAGA GCCGAAAGGCGAGUGAGGUCU	UUCUUGGA	31872
10040	990	AAGUCUCU G UUGUCUAU	13498	AUGAGCAA GCCGAAAGGCGAGUGAGGUCU	AGAGACUU	31873
10043	987	UCUCUGUU G CUCAUUC	13499	GGAAUGAG GCCGAAAGGCGAGUGAGGUCU	AACAGAGA	31874
10055	975	AUCCAAG G CAGUUGAA	13500	UUCAACUG GCCGAAAGGCGAGUGAGGUCU	CUUGGAUU	31875
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCUUCAA GCCGAAAGGCGAGUGAGGUCU	UGCCUUGG	31876
10064	966	CAGUUGAA G CUGUAAGC	13502	GCUUACAG GCCGAAAGGCGAGUGAGGUCU	UUCAACUG	31877
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCUUA GCCGAAAGGCGAGUGAGGUCU	AGCUUCAA	31878
10071	959	AGCUGUAA G CUGGGGCC	13504	GGCCCCAG GCCGAAAGGCGAGUGAGGUCU	UUACAGCU	31879
10077	953	AAGCUGGG G CCACCAA	13505	UUUGGUGG GCCGAAAGGCGAGUGAGGUCU	CCCAGCUU	31880
10087	943	CACCAAAA G CAAUAGCA	13506	UGCUAUUG GCCGAAAGGCGAGUGAGGUCU	UUUUGGUG	31881
10093	937	AAGCAAUA G CACGACAA	13507	UUGUCGUG GCCGAAAGGCGAGUGAGGUCU	UAUUGCUU	31882

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10114	916	AACUCUCU G CAUGGUGU	13508	ACACCAUG GCCGAAAGGCGAGUGAGGUCU	AGAGAGUU	31883
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GCCGAAAGGCGAGUGAGGUCU	CAUGCAGA	31884
10121	909	UGCAUGGU G UUGCUC	13510	GGGAGCAA GCCGAAAGGCGAGUGAGGUCU	ACCAUGCA	31885
10124	906	AUGGUGUU G CUCCCAAG	13511	CUUGGGAG GCCGAAAGGCGAGUGAGGUCU	AACACCAU	31886
10132	898	GCUCCCA G CAUCCAAC	13512	GUUGGAUG GCCGAAAGGCGAGUGAGGUCU	UUGGGAGC	31887
10149	881	CAUAGACG G CUGCCACC	13513	GGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CGUCAUUG	31888
10152	878	UGACGGCU G CCACCAGG	13514	CCUGGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCGUCA	31889
10161	869	CCACCAGG G CAUAUCCA	13515	UGGAUAUG GCCGAAAGGCGAGUGAGGUCU	CCUGGUGG	31890
10172	858	UAUCCAGG G UUCUCA	13516	UUGAGGAA GCCGAAAGGCGAGUGAGGUCU	CCUGGAU	31891
10194	836	AUGAUUCU G UUUUACC	13517	GGUAAAA GCCGAAAGGCGAGUGAGGUCU	AGAAUCAU	31892
10212	818	AAUACCU G UGGCUUG	13518	CAAGGCCA GCCGAAAGGCGAGUGAGGUCU	AAGGUAAU	31893
10215	815	ACCUUGUG G CCUUGGUG	13519	CACCAAGG GCCGAAAGGCGAGUGAGGUCU	CACAAGGU	31894
10221	809	UGGCCUUG G UGCUGUC	13520	GGACAGCA GCCGAAAGGCGAGUGAGGUCU	CAAGGCCA	31895
10223	807	GCCUUGGU G CUGUCCAU	13521	AUGGACAG GCCGAAAGGCGAGUGAGGUCU	ACCAAGGC	31896
10226	804	UUGGUGCU G UCCAUGCA	13522	UGGAUGGA GCCGAAAGGCGAGUGAGGUCU	AGCACCAA	31897
10236	794	CCAUCCAA G CCCCUUC	13523	GAAGGGGG GCCGAAAGGCGAGUGAGGUCU	UUGGAUGG	31898
10247	783	CCUUCUUG G UUCGUAG	13524	CAAGGCCA GCCGAAAGGCGAGUGAGGUCU	AAGGAAGG	31899
10251	779	UCUUGUUC G CUAGAGUG	13525	CACUCUAG GCCGAAAGGCGAGUGAGGUCU	GAACAAGA	31900
10257	773	UCGCUAGA G UGCUUUCU	13526	AGAAAGCA GCCGAAAGGCGAGUGAGGUCU	UCUAGCGA	31901
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GCCGAAAGGCGAGUGAGGUCU	ACUCUAGC	31902
10268	762	CUUUCUCC G UGUGUCUG	13528	CAGACACA GCCGAAAGGCGAGUGAGGUCU	GGAGAAAG	31903
10270	760	UUCUCCGU G UGUCUGCA	13529	UGCAGACA GCCGAAAGGCGAGUGAGGUCU	ACGGAGAA	31904
10272	758	CUCCGUGU G UCUGCACU	13530	AGUGCAGA GCCGAAAGGCGAGUGAGGUCU	ACACGGAG	31905
10276	754	GUGUGUCU G CACUGUCA	13531	UGACAGUG GCCGAAAGGCGAGUGAGGUCU	AGACACAC	31906
10281	749	UCUGCACU G UCAGUGAC	13532	GUCACUGA GCCGAAAGGCGAGUGAGGUCU	AGUGCAGA	31907
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGUCA GCCGAAAGGCGAGUGAGGUCU	UGACAGUG	31908
10298	732	CUCCGACU G CGUCUUGA	13534	UCAAGACG GCCGAAAGGCGAGUGAGGUCU	AGUCGGAG	31909
10300	730	CCGACUGC G UCUUGAGU	13535	ACUCAAGA GCCGAAAGGCGAGUGAGGUCU	GCAGUCGG	31910
10307	723	CGUCUUGA G UGGCGUGU	13536	ACAGCCCA GCCGAAAGGCGAGUGAGGUCU	UCAAGACG	31911
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GCCGAAAGGCGAGUGAGGUCU	CACUCAAG	31912
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GCCGAAAGGCGAGUGAGGUCU	GCCACUCA	31913
10314	716	AGUGGCGU G UCUUGGUG	13539	CACCAAGA GCCGAAAGGCGAGUGAGGUCU	ACGCCACU	31914
10320	710	GUGUCUUG G UGCAUCUU	13540	AAGAUGCA GCCGAAAGGCGAGUGAGGUCU	CAAGACAC	31915
10322	708	GUUCUUGU G CAUCUUC	13541	GGAAGAU GCCGAAAGGCGAGUGAGGUCU	ACCAAGAC	31916
10340	690	UACCGUAC G UAGACUGC	13542	CGAGUCUA GCCGAAAGGCGAGUGAGGUCU	GUCAGGUA	31917
10347	683	CGUAGACU G CUGACUUU	13543	AAAGUCAG GCCGAAAGGCGAGUGAGGUCU	AGUCUACG	31918
10356	674	CUGACUUU G UGCACCAA	13544	UUGGUGCA GCCGAAAGGCGAGUGAGGUCU	AAAGUCAG	31919
10358	672	GACUUUGU G CACCAACA	13545	UGUUGGUG GCCGAAAGGCGAGUGAGGUCU	ACAAAGUC	31920
10367	663	CACCAACA G UCGAUGUC	13546	GACAUCGA GCCGAAAGGCGAGUGAGGUCU	UGUUGGUG	31921
10373	657	CAGUCGAU G UCUUCUGG	13547	CCAGAAGA GCCGAAAGGCGAGUGAGGUCU	AUCGACUG	31922
10392	638	CAUACCA G CCGACAGC	13548	CGUGUCGG GCCGAAAGGCGAGUGAGGUCU	UGGUAAUG	31923
10399	631	AGCCGACA G CACUGGGC	13549	GCCCAGUG GCCGAAAGGCGAGUGAGGUCU	UGUCGGCU	31924
10406	624	AGCACUGG G CAUUCAU	13550	UAUGAAUG GCCGAAAGGCGAGUGAGGUCU	CCAGUGCU	31925
10416	614	AUUCAUAA G UGAUAGUA	13551	UACUAUCA GCCGAAAGGCGAGUGAGGUCU	UAUGAAU	31926
10422	608	AAGUGAUA G UAUCAUCG	13552	CGAUGAUA GCCGAAAGGCGAGUGAGGUCU	UAUCAU	31927
10430	600	GUUACAU G CACAUGUA	13553	UACAUGUG GCCGAAAGGCGAGUGAGGUCU	GAUGAUAC	31928
10436	594	UCGCACAU G UAUCCAC	13554	GUGGGAUA GCCGAAAGGCGAGUGAGGUCU	AUGUGCGA	31929
10452	578	CAUCCAU G CUCUGACA	13555	UGUCAGAG GCCGAAAGGCGAGUGAGGUCU	AAUGGAUG	31930
10463	567	CUGACAAU G CAUAGGUU	13556	AACCUAUG GCCGAAAGGCGAGUGAGGUCU	AUUGUCAG	31931
10469	561	AUGCAUAG G UUCUUC	13557	GGAAAGAA GCCGAAAGGCGAGUGAGGUCU	CUAUGCAU	31932
10479	551	UCUUCCA G CAGCUGUU	13558	AACAGCUG GCCGAAAGGCGAGUGAGGUCU	UGGAAAGA	31933
10482	548	UUCACGA G CUGUUGGA	13559	UCCAACAG GCCGAAAGGCGAGUGAGGUCU	UGCUGGAA	31934
10485	545	CAGCAGCU G UUGGAUUC	13560	GAUUCCAA GCCGAAAGGCGAGUGAGGUCU	AGCUGCUG	31935
10494	536	UUGGAAUC G UGAUGACA	13561	UGUCAUCA GCCGAAAGGCGAGUGAGGUCU	GAUUCCAA	31936
10506	524	UGACAUUC G UGACGUCA	13562	UGACGUCA GCCGAAAGGCGAGUGAGGUCU	AGAUGUCA	31937
10511	519	UCUGUGAC G UCAGUAGC	13563	GCUACUGA GCCGAAAGGCGAGUGAGGUCU	GUACACAG	31938
10515	515	UGACGUCA G UAGCAUUU	13564	AAAUUCUA GCCGAAAGGCGAGUGAGGUCU	UGACGUCA	31939
10518	512	CGUCAGUA G CAUUUACC	13565	GGUAAUUG GCCGAAAGGCGAGUGAGGUCU	UACUGACG	31940
10527	503	CAUUUACC G UCAUUAUC	13566	GAUGAUGA GCCGAAAGGCGAGUGAGGUCU	GGUAAUUG	31941
10550	480	CCUUGGAA G UUAAGAGAG	13567	CUCUCUAA GCCGAAAGGCGAGUGAGGUCU	UUCCAAAG	31942
10560	470	UAGAGAGG G UAACUGCU	13568	AGCAGUUA GCCGAAAGGCGAGUGAGGUCU	CCUCUCUA	31943
10566	464	GGGUAACU G CUCCUACG	13569	CGUAGGAG GCCGAAAGGCGAGUGAGGUCU	AGUUACCC	31944

Table X

10574	456	GCUCCUAC G CUGGCGAU	13570	AUCGCCAG GCCGAAAGGCGAGUGAGGUCU	GUAGGAGC	31945
10578	452	CUACGCTG G CGAUCAGG	13571	CCUGAUCG GCCGAAAGGCGAGUGAGGUCU	CAGCGUAG	31946
10586	444	GCGAUCAG G CCAAUCAU	13572	AUGAUUGG GCCGAAAGGCGAGUGAGGUCU	CUGAUCGC	31947
10599	431	UCAUGACU G CAAUCCG	13573	CGGAAUUG GCCGAAAGGCGAGUGAGGUCU	AGUCAUGA	31948
10608	422	CAAUCCG G UCUUCCU	13574	AGGAAAGA GCCGAAAGGCGAGUGAGGUCU	CCGAAUUG	31949
10630	400	UUUCUUU G UUUGAGC	13575	GCUCAAAA GCCGAAAGGCGAGUGAGGUCU	AAAAGAAA	31950
10637	393	UGUUUUGA G CUCGCGG	13576	CGGCGGAG GCCGAAAGGCGAGUGAGGUCU	UCAAACA	31951
10642	388	UGAGCUCC G CCGAUUGA	13577	UCAUCCG GCCGAAAGGCGAGUGAGGUCU	GGAGCUCA	31952
10653	377	GAUUGADA G CACUGGUC	13578	GACCAGUG GCCGAAAGGCGAGUGAGGUCU	UAUCAUUC	31953
10659	371	UAGCACUG G UCAAGGUC	13579	GACCUUGA GCCGAAAGGCGAGUGAGGUCU	CAGUGCUA	31954
10665	365	UGGUCAAG G UCCCUAGU	13580	ACTUAGGA GCCGAAAGGCGAGUGAGGUCU	CUUGACCA	31955
10672	358	GGUCCCUA G UUCUUCU	13581	AGAAGGAA GCCGAAAGGCGAGUGAGGUCU	UAGGGACC	31956
10694	336	CUCAGAAG G UGUUUAU	13582	AUGAAACA GCCGAAAGGCGAGUGAGGUCU	CUUCUGAG	31957
10696	334	CAGAAGGU G UUUCAUG	13583	CGAUGAAA GCCGAAAGGCGAGUGAGGUCU	ACCUUCUG	31958
10704	326	GUUUCATC G CUGUUGU	13584	ACAAACAG GCCGAAAGGCGAGUGAGGUCU	GAUGAAAC	31959
10707	323	UCAUCGCU G UUUGUUU	13585	CAAACAAA GCCGAAAGGCGAGUGAGGUCU	AGCGAUGA	31960
10711	319	CGCUGUUU G UUUGUUA	13586	UGAACAAA GCCGAAAGGCGAGUGAGGUCU	AAACAGCG	31961
10715	315	GUUUGUUU G UUCACACC	13587	GGUGUGAA GCCGAAAGGCGAGUGAGGUCU	AAACAAC	31962
10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGUG GCCGAAAGGCGAGUGAGGUCU	UGGAUCCA	31963
10743	287	CCAGCACU G CUCGGGUC	13589	GACCCGAG GCCGAAAGGCGAGUGAGGUCU	AGUGCUGG	31964
10749	281	CUGCUCGG G UCGGAGCA	13590	UGCUCGGA GCCGAAAGGCGAGUGAGGUCU	CCGAGCAG	31965
10755	275	GGGUCGGA G CAAUUGCU	13591	AGCAAUUG GCCGAAAGGCGAGUGAGGUCU	UCCGACCC	31966
10761	269	GAGCAAUU G CUGUGAAC	13592	GUUCACAG GCCGAAAGGCGAGUGAGGUCU	AAUUGCUC	31967
10764	266	CAAUUGCU G UGAACCUG	13593	CAGGUUCA GCCGAAAGGCGAGUGAGGUCU	AGCAAUUG	31968
10779	251	UGAAGAAC G CCAAGAGA	13594	UCUCUUGG GCCGAAAGGCGAGUGAGGUCU	GUUCUUA	31969
10788	242	CCAAGAGA G CCAACACA	13595	UGUGUUGG GCCGAAAGGCGAGUGAGGUCU	UCUCUUGG	31970
10801	229	CACAAUUC G UAUUGGCC	13596	GGCCAAUA GCCGAAAGGCGAGUGAGGUCU	GAUUUGUG	31971
10807	223	UCGUUUUG G CCCUUGC	13597	GCAAGGGG GCCGAAAGGCGAGUGAGGUCU	CAUAACGA	31972
10814	216	GGCCCCUU G CCGUCGAG	13598	AUCGACGG GCCGAAAGGCGAGUGAGGUCU	AAGGGGCC	31973
10817	213	CCCUUGCC G UCGAUCAG	13599	CUGAUCGA GCCGAAAGGCGAGUGAGGUCU	GGCAAGGG	31974
10826	204	UCGAUCCA G CUCAACAU	13600	AUGUUUGG GCCGAAAGGCGAGUGAGGUCU	CUGAUCGA	31975
10836	194	UCAACAUA G CCCUUCU	13601	GAAGAGGG GCCGAAAGGCGAGUGAGGUCU	UAUGUUGA	31976
10846	184	CCUCUUA G UCCAUAUA	13602	UGAUUGGA GCCGAAAGGCGAGUGAGGUCU	UGAAGAGG	31977
10865	165	GACAACAC G CGGGCAU	13603	AUGCCCCG GCCGAAAGGCGAGUGAGGUCU	GUGUUGUC	31978
10870	160	CACGCGGG G CAUCCGCG	13604	GCGGAUUG GCCGAAAGGCGAGUGAGGUCU	CCCUGCUG	31979
10877	153	GGCAUUCG G CGUUUAG	13605	CUAAAACG GCCGAAAGGCGAGUGAGGUCU	GGAAUGCC	31980
10879	151	CAUCCGCG G UUUAAGCA	13606	UGCUAAAA GCCGAAAGGCGAGUGAGGUCU	GCGAAUUG	31981
10885	145	GCGUUUUA G CAUAUUGA	13607	UCAUAUUG GCCGAAAGGCGAGUGAGGUCU	UAAAACGC	31982
10896	134	UAUUGACA G CCCGCGUC	13608	GAGCCGGG GCCGAAAGGCGAGUGAGGUCU	UGUCAUA	31983
10901	129	ACAGCCCG G CUCUUGCC	13609	GGCAAGAG GCCGAAAGGCGAGUGAGGUCU	CGGGCUGU	31984
10907	123	CGGCUCUU G CCGGGCCC	13610	GGGCCCGG GCCGAAAGGCGAGUGAGGUCU	AAGAGCCG	31985
10912	118	CUUGCCGG G CCCUCCUG	13611	CAGGAGGG GCCGAAAGGCGAGUGAGGUCU	CCGGCAAG	31986
10921	109	CCUCCUG G UUUCUAG	13612	CUAAGAAA GCCGAAAGGCGAGUGAGGUCU	CAGGAGGG	31987
10944	86	AGAUCUUC G UGCUAAGA	13613	UCUUAAGA GCCGAAAGGCGAGUGAGGUCU	GAAGAUCU	31988
10946	84	AUCUUCGU G CUAAGAAA	13614	UUUCUUGG GCCGAAAGGCGAGUGAGGUCU	ACGAAGAU	31989
10957	73	AAGAAACA G CUCGCACU	13615	AGUGCAGG GCCGAAAGGCGAGUGAGGUCU	UGUUUCUU	31990
10961	69	AACAGCUC G CACUGUGU	13616	ACACAGUG GCCGAAAGGCGAGUGAGGUCU	GAGCUGUU	31991
10966	64	CUCGCACU G UGUUAAU	13617	AAUUAACA GCCGAAAGGCGAGUGAGGUCU	AGUGCAGG	31992
10968	62	CGCACUGU G UUAUUGU	13618	ACAAUUA GCCGAAAGGCGAGUGAGGUCU	ACAGUGCG	31993
10975	55	UGUUAUUU G UUGUUAU	13619	AUUAACA GCCGAAAGGCGAGUGAGGUCU	AAUUAACA	31994
10978	52	UAAUUGUU G UUAUCCU	13620	AGGAUUA GCCGAAAGGCGAGUGAGGUCU	AACAAUUA	31995
11002	28	ACUACUAA G UUUGUCAG	13621	CUGACAAA GCCGAAAGGCGAGUGAGGUCU	UUAGUAGU	31996
11006	24	CUAAGUUU G UCAGCUCA	13622	UGAGCUGA GCCGAAAGGCGAGUGAGGUCU	AAACUUAU	31997
11010	20	GUUUGUCA G CUCACACA	13623	UGUGUGAG GCCGAAAGGCGAGUGAGGUCU	UGACAAAC	31998
11020	10	UCACACAG G CGAACUAC	13624	GUAGUUCG GCCGAAAGGCGAGUGAGGUCU	CUGUGUGA	31999

Input Sequence = AF196835_rc. Cut Site = G/Y

Arm Length = 8. Core Sequence = GCCGAAAGGCGAGUCAAGGUCU

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XI: WNV minus strand DNzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	DNzyme Sequence	Seq ID
88	10942	CCUAGUCU A UCCCAGGU	7383	ACCTGGGA GGCTAGCTACAACGA AGACTAGG	32000
103	10927	GUGUCAAU A UGCUGUUU	7386	AAACAGCA GGCTAGCTACAACGA ATTGACAC	32001
169	10861	CCUGACCU A CAGCUUCA	7402	TGAAGCTG GGCTAGCTACAACGA AGGTCAGG	32002
253	10777	ACACCAU A CCGGGGCU	7422	AGCCCCGG GGCTAGCTACAACGA AATGGTGT	32003
316	10714	GGGGCACU A UCGCAGAC	7433	GTCTGCGA GGCTAGCTACAACGA AGTGCCCC	32004
381	10649	UUGAAGUU A CAACAUGU	7444	ACATGTGT GGCTAGCTACAACGA AACTTCAA	32005
423	10607	GAGGGCUU A CAUGGAUC	7452	GATCCATG GGCTAGCTACAACGA AAGCCCTC	32006
489	10541	CACCGUCU A CUACAACU	7465	AAGTTGAG GGCTAGCTACAACGA AGACGGTG	32007
549	10481	UCUUAACU A UUUACACU	7482	AGTGTAAG GGCTAGCTACAACGA AGTTAAGA	32008
553	10477	AACUAUUU A CACUAACA	7485	TGTTAGTG GGCTAGCTACAACGA AAATAGTT	32009
571	10459	CACUAAAU A CUACUAUA	7488	TATAGTAG GGCTAGCTACAACGA ATTTAGTG	32010
574	10456	UAAUAACU A CUUAAAAA	7489	TTTTATAG GGCTAGCTACAACGA AGTATTTA	32011
577	10453	AUACUACU A UAAAAACU	7490	TAGTTTAA GGCTAGCTACAACGA AGTAGTAT	32012
585	10445	AUAAAAACU A CACUUUUA	7492	TAAAAGTG GGCTAGCTACAACGA AGTTTAT	32013
593	10437	ACACUUUU A UGCAUACU	7496	AGTATGCA GGCTAGCTACAACGA AAAAGTGT	32014
599	10431	UUAUGCAU A CUUAUAUU	7497	AATATAAG GGCTAGCTACAACGA ATGCATAA	32015
603	10427	GCAUACUU A UAUUGUCU	7499	AGACAATA GGCTAGCTACAACGA AAGTATGC	32016
605	10425	AUACUUAU A UUGUCUAU	7500	ATAGACAA GGCTAGCTACAACGA ATAAGTAT	32017
612	10418	UAUUGUCU A UUUACAAU	7503	ATTGTAAA GGCTAGCTACAACGA AGACAATA	32018
616	10414	GUCUAUUU A CAAUUGAU	7506	ATCAATTG GGCTAGCTACAACGA AAATAGAC	32019
630	10400	GAUUAUUU A UCUCACAGU	7510	ACTGTAGA GGCTAGCTACAACGA ATTTAATC	32020
634	10396	AAUAUUCU A CAGUACUG	7512	CAGTACTG GGCTAGCTACAACGA AGATATTT	32021
639	10391	UCUACAGU A CUGUGUCC	7513	GGACACAG GGCTAGCTACAACGA ACTGTAGA	32022
670	10360	GUCUUCU A UCUCUUUA	7520	TAAAGAGA GGCTAGCTACAACGA ATGAAGAC	32023
700	10330	AUCCACAU A CUUCUCAU	7529	ATGAGAAG GGCTAGCTACAACGA ATGTGGAT	32024
823	10207	UCCUGAAU A UGGGACGU	7555	ACGTCCCA GGCTAGCTACAACGA ATTCAGGA	32025
882	10148	UCUCCUCU A UCCAAACA	7575	TGTTTGGA GGCTAGCTACAACGA AGAGGAGA	32026
1039	9991	GUGGAAGU A CAGAAGCA	7600	TGCTTCTG GGCTAGCTACAACGA ACTCCAC	32027
1116	9914	CUGGAGAU A UGCGAGCU	7609	AGCTCGCA GGCTAGCTACAACGA ATCTCCAG	32028
1131	9899	CUCUGCCU A CCAAUUCA	7611	TGAATTGG GGCTAGCTACAACGA AGGCAGAG	32029
1234	9796	CCAAUCAU A CCAUCCAG	7631	CTGGATGG GGCTAGCTACAACGA ATGATTGG	32030
1335	9695	GGGGCUUU A CCACACAG	7650	CTGTGTGG GGCTAGCTACAACGA AAAGCCCC	32031
2145	8885	CCUUUCUU A UGAAUUC	7816	GGAATTCA GGCTAGCTACAACGA AAGAAAGG	32032
2230	8800	GAGCACGU A CUUCACUC	7833	GAGTGAAG GGCTAGCTACAACGA ACGTGCTC	32033
2444	8586	CAGGUUCU A UAUGGGUG	7872	CACCCATA GGCTAGCTACAACGA AGAACCTG	32034
2446	8584	GGUUCUAU A UGGGUGGU	7873	ACCACCCA GGCTAGCTACAACGA ATAGAACC	32035
2482	8548	CGAACUGU A CUCACGCC	7879	GGCGTGAG GGCTAGCTACAACGA AGGTTTCG	32036
2519	8511	UUGAUUUU A CUGGUGUC	7891	GACACCAG GGCTAGCTACAACGA AAAATCAA	32037
2577	8453	CCAAGUUU A CAUCUUC	7904	GGAAGATG GGCTAGCTACAACGA AAAGTTGG	32038
2590	8440	UUCUCUGU A UUGGGGUC	7909	GACCCCAA GGCTAGCTACAACGA ACGAGGAA	32039
2648	8382	CUGGUCU A UUCACUGA	7927	TCAGTGAA GGCTAGCTACAACGA ATGACCAG	32040
2661	8369	CUGAAUGU A CCACAUUG	7930	CAATGTGG GGCTAGCTACAACGA ACATTGAG	32041
2692	8338	CACCCAAU A CAUCUCGU	7934	ACGAGATG GGCTAGCTACAACGA ATTTGGTG	32042
2746	8284	CCCCCAU A CCGGCGUU	7943	AACGCCGG GGCTAGCTACAACGA ATGGGGGG	32043
2775	8255	UCUUCUCU A UGACUUUC	7950	GAAAGTCA GGCTAGCTACAACGA AGAGAAGA	32044
2873	8157	AUCGUCCU A UGCUCUUC	7968	GAAGAGCA GGCTAGCTACAACGA AGGACGAT	32045
3043	7987	CUUUGUGU A CCCUCUGA	8000	TCAGAGGG GGCTAGCTACAACGA ACACAAAG	32046
3080	7950	GUUGCCAU A UAGUAACA	8012	TGTTACTA GGCTAGCTACAACGA ATGGCAAC	32047
3271	7759	UUUGCGGU A CCUAGUGA	8052	TCAGTAGG GGCTAGCTACAACGA ACCGCAA	32048
3381	7649	UGUUCUUU A UGAGUGUC	8092	GACACTCA GGCTAGCTACAACGA AAAGAACA	32049
3396	7634	UCCAUGUU A UGGAUAGA	8095	TCTATCCA GGCTAGCTACAACGA AACATGGA	32050
3531	7499	CUUCUCGU A CUGUCUUC	8114	GAAGACAG GGCTAGCTACAACGA ACGAGAAG	32051
3555	7475	GGUUCACU A CUACUGCA	8120	TGCAGTAG GGCTAGCTACAACGA AGTGAACC	32052
3558	7472	UCACUACU A CUGCAGCU	8121	AGCTGCAG GGCTAGCTACAACGA AGTAGTGA	32053
3666	7364	CAUCCACU A CAGCGUUC	8137	GAAACGCT GGCTAGCTACAACGA AGTGATG	32054
3780	7250	CCGUGUUU A CCGUACG	8152	CGTTACGG GGCTAGCTACAACGA AACAGCGG	32055
3900	7130	GAACGUUU A UUGAGGUC	8165	GACCTCAA GGCTAGCTACAACGA AAACGTTT	32056
3982	7048	CACAGCGU A CAGUGACC	8177	GGTCACTG GGCTAGCTACAACGA ACGCTGTG	32057
4077	6953	AACUGCUU A UGUACUC	8193	GAGTGACA GGCTAGCTACAACGA AAGCAGTT	32058

4094	6936	UUGGUCUU A UCUAGCCA	8199	TGGCTAGA GGCTAGCTACAACGA AAGACCAA	32059
4323	6707	CCAAACCU A UCUUCCA	8234	TGGAAGA GGCTAGCTACAACGA AGGTTTGG	32060
4362	6668	GGAAGAAU A CUCCCAUG	8241	CATGGGAG GGCTAGCTACAACGA ATTCTTCC	32061
4480	6550	CACAACGU A CAUGGUGU	8264	ACACCATG GGCTAGCTACAACGA ACGTTGTG	32062
4554	6476	UGAGCCCU A UCUGAGAA	8277	TTCTCAGA GGCTAGCTACAACGA AGGGCTCA	32063
4615	6415	AUCCGAGU A CACCCUGG	8289	CCAGGGTG GGCTAGCTACAACGA ACTCGGAT	32064
4747	6283	GUCGUGGU A UGACACUC	8319	GAGTGTCA GGCTAGCTACAACGA ACCACGAC	32065
4849	6181	GAGCCGGU A UUCCCAU	8340	ATGGGGAA GGCTAGCTACAACGA ACCGGCTC	32066
4865	6165	UCCAUGGU A UAUACCUU	8344	AAGGTATA GGCTAGCTACAACGA ACCATGGA	32067
4867	6163	CAUGGUUU A UACCUUCU	8345	AGAAGGTA GGCTAGCTACAACGA ATACCATG	32068
4869	6161	UGGUAUUA A CCUUCUCA	8346	TGAGAAAG GGCTAGCTACAACGA ATATACCA	32069
5002	6028	AUAACAGU A CUCAUCAC	8374	GTGATGAG GGCTAGCTACAACGA ACTGTTAT	32070
5030	6000	GGAUUUU A CCGAUACG	8381	CGTATCGG GGCTAGCTACAACGA AGAAATCC	32071
5036	5994	CUACCGAU A CGUCCACG	8382	CGTGGACG GGCTAGCTACAACGA ATCGGTAG	32072
5115	5915	CUUCUGUU A UGAUGGUU	8400	AACCATCA GGCTAGCTACAACGA AACAGAAAG	32073
5187	5843	UUUCAGAU A UGUCUGUU	8417	AACAGACA GGCTAGCTACAACGA ATCTGAAA	32074
5225	5805	UCGUUCUU A CAUUUUGG	8427	CCAAAATG GGCTAGCTACAACGA AAGAACGA	32075
5236	5794	UUUUGGGU A CUCCGUCU	8431	AGACGGAG GGCTAGCTACAACGA ACCCAAAA	32076
5248	5782	CGUCUCGU A CGACUUUC	8435	GAAAGTCG GGCTAGCTACAACGA ACGAGACG	32077
5271	5759	AUUGGACU A CUUUCUUU	8442	AAAGAAAG GGCTAGCTACAACGA AGTCCAAT	32078
5356	5674	CCCGGUGU A UUCUGUGA	8461	TCACAGAA GGCTAGCTACAACGA ACACCGGG	32079
5374	5656	CCAUUCGU A UCCAGAGU	8467	ACTCTGGA GGCTAGCTACAACGA ACGAATGG	32080
5481	5549	UCAUGAAU A UUGCCGCC	8483	GGCGGCAA GGCTAGCTACAACGA ATTCATGA	32081
5663	5367	UUUCCAUU A UGUUCUCU	8511	AGAGAAAC GGCTAGCTACAACGA AATGGAAG	32082
5692	5338	UGUCUGGU A CCGGAUGG	8516	CCATCCGG GGCTAGCTACAACGA ACCAGACA	32083
5781	5249	UUUCUUUU A UGGCCUCU	8534	AGAGGGCA GGCTAGCTACAACGA AAACAGAA	32084
5822	5208	CUUGUUUU A CCGCGGCC	8545	GGCGCCGG GGCTAGCTACAACGA AAAACAAG	32085
5847	5183	GAUCCAGU A CAGUGAUC	8547	GATCACTG GGCTAGCTACAACGA ACTGGATC	32086
5925	5105	CCUGCACU A UCGCGCUU	8568	AAGCGCGA GGCTAGCTACAACGA AGTGCAGG	32087
5934	5096	UCGCGCUU A UGUUAGAG	8571	CTCATACA GGCTAGCTACAACGA AAGCGCGA	32088
5938	5092	GCUAUGU A UGAGCCGU	8572	ACGGCTCA GGCTAGCTACAACGA ACATAAGC	32089
5955	5075	UGGGCAUU A UGACUCCA	8575	TGGAGTCA GGCTAGCTACAACGA AATGCCCA	32090
6003	5027	UGUCCACU A UUGGUGAG	8586	CTCACCAA GGCTAGCTACAACGA AGTGGACA	32091
6217	4813	GCCCCAGU A UGGGUCCA	8631	TGGACCCA GGCTAGCTACAACGA ACTGGGGC	32092
6266	4764	UUUGUUGU A UGCCAAAG	8642	CTTTGGCA GGCTAGCTACAACGA ACAACAAA	32093
6382	4648	CUUUUUGU A CUCCUUUG	8658	CAAAGGAG GGCTAGCTACAACGA ACAAAAAG	32094
6430	4600	CUUUGUGU A UUGGAGAG	8668	CTCTCCAA GGCTAGCTACAACGA ACACAAAAG	32095
6441	4589	GGAGAGUU A UCCAAAAG	8671	ATTTTGGA GGCTAGCTACAACGA AACTCTCC	32096
6456	4574	AUCCAACU A CUGAGGGC	8674	GCCCTCAG GGCTAGCTACAACGA AGTTGGAT	32097
6484	4546	GGGGUGU A CGCACUAA	8676	TTAGTGGG GGCTAGCTACAACGA ACACCCCC	32098
6522	4508	GCAUCCAU A UCUUCCAA	8682	TTGGAAGA GGCTAGCTACAACGA ATGGATGC	32099
6659	4371	AUCCAACU A UCUGUUGA	8716	TCAACAGA GGCTAGCTACAACGA ATGTGGAT	32100
6818	4212	CCGCGUUU A CGGUUGGG	8740	CCCAACCG GGCTAGCTACAACGA AAACGCGG	32101
6957	4073	AGCUGCCU A UUCCGACC	8767	GGTCGGAA GGCTAGCTACAACGA AGGCAGCT	32102
6978	4052	ACAGCAGU A UCCUGUAC	8771	GTACAGGA GGCTAGCTACAACGA ACTGCTGT	32103
6985	4045	UAUCCUGU A CACAUCCA	8773	TGGATGTG GGCTAGCTACAACGA ACAGGATA	32104
7068	3962	UGAAUGUU A UGGCUCUC	8787	GAGAGCCA GGCTAGCTACAACGA AACATTCA	32105
7080	3950	CUCUCAGU A UCAUCCAA	8790	TTGGATGA GGCTAGCTACAACGA ACTGAGAG	32106
7092	3938	UCCAAGCU A CCGCCAGU	8793	ACTGGCGG GGCTAGCTACAACGA AGCTTGGG	32107
7251	3779	CUGGUUGU A UCUUGAAG	8817	CTTCAAGA GGCTAGCTACAACGA ACAACCAG	32108
7281	3749	CCAAGUGU A CCACGUCU	8821	AGACGTGG GGCTAGCTACAACGA AACTTTGG	32109
7395	3635	CAAUCAGU A UAGCUGGC	8836	GCCAGCTA GGCTAGCTACAACGA ACTGATTG	32110
7493	3537	UCAAUCAU A UCAGCAUU	8846	AATGCTGA GGCTAGCTACAACGA ATGATTGA	32111
7502	3528	UCAGCAUU A UAAGCAUU	8849	AATGCTTA GGCTAGCTACAACGA AATGCTGA	32112
7565	3465	AUCUCCAU A CCAUACCA	8865	TGGTATGG GGCTAGCTACAACGA ATGGAGAT	32113
7570	3460	CAUACCAU A CCAACAGC	8866	GCTGTTGG GGCTAGCTACAACGA ATGGTATG	32114
7638	3392	AAUCUGUU A UCAACUUU	8875	AAAGTTGA GGCTAGCTACAACGA AACAGATT	32115
7743	3287	CAAUCUCU A CCCGGCCU	8895	AGGCGGGG GGCTAGCTACAACGA AGAGATTG	32116
7783	3247	UGUCUUGU A CCCAGGUC	8904	GACCTGGG GGCTAGCTACAACGA ACAAGACA	32117
7833	3197	UGACUGGU A UUAUCAAG	8912	CTTGATAA GGCTAGCTACAACGA ACCAGTCA	32118
7836	3194	CUGGUUUU A UCAAGUCA	8914	TGACTTGA GGCTAGCTACAACGA AATACCAG	32119
7874	3156	CACAAGGU A UGCGUCUC	8922	GAGAGCGA GGCTAGCTACAACGA ACCTTGTG	32120
7892	3138	GGCCACGU A CAUGAUUU	8925	AAATCATG GGCTAGCTACAACGA ACGTGGCC	32121

7937	3093	UUCCACGU A UCAUUGAG	8935	CTCAATGA GGCTAGCTACAACGA ACGTGGAA	32122
8108	2922	UCUAAGCU A UUCCAAGC	8971	GCTTGGAA GGCTAGCTACAACGA AGCTTAGA	32123
8198	2832	AAUAAAUA A CUCUUUCC	8988	GGAAAGAG GGCTAGCTACAACGA ATTTTATT	32124
8272	2758	UGACUUGU A CAUUCUUU	9007	AGGGAATG GGCTAGCTACAACGA ACAAGTCA	32125
8411	2619	CCUUCUUU A UGAGCUUU	9040	AAAGCTCA GGCTAGCTACAACGA AAGGAAGG	32126
8461	2569	AGGGUAAU A CUUGUACC	9052	GGTACAAG GGCTAGCTACAACGA ATTACCTT	32127
8467	2563	AUACUUGU A CCGGUCCA	9054	TGGACCGG GGCTAGCTACAACGA ACAAGTAT	32128
8499	2531	CAUUGUGU A UGAACACU	9060	AGTGTTC A GGCTAGCTACAACGA ACACAATG	32129
8544	2486	UGAUGUCU A UGGCACAC	9069	GTGTGCCA GGCTAGCTACAACGA AGACATCA	32130
8622	2408	UGAGAGCU A UGGACCUA	9075	TAGGTCCA GGCTAGCTACAACGA AGCTCTCA	32131
8630	2400	AUGGACCU A UCACGAGC	9076	GCTCGTGA GGCTAGCTACAACGA AGGTCCAT	32132
8685	2345	CUUGCGUU A UCCAGGAC	9083	GTCCTGGA GGCTAGCTACAACGA AACGCAAG	32133
8913	2117	CCACCACU A UGUUAGAG	9117	CTCATACA GGCTAGCTACAACGA AGTGTGGG	32134
8917	2113	CACUAUGU A UGAGUCUC	9118	GAGACTCA GGCTAGCTACAACGA ACATAGTG	32135
9079	1951	GCCAGUGU A CUGCAAUU	9141	AATTGCAG GGCTAGCTACAACGA AACTGGCC	32136
9200	1830	UUCACUCU A CACUUCAA	9164	TTGAAGTG GGCTAGCTACAACGA AGATGAA	32137
9306	1724	CCAAUGCU A UCACAGAC	9178	GTCGTGTA GGCTAGCTACAACGA AGCATTTG	32138
9374	1656	CACACAGU A CUUCCAGC	9194	GCTGGAAG GGCTAGCTACAACGA ACTGTGTG	32139
9463	1567	CACGUAGU A UGCAUUGG	9209	CCAATGCA GGCTAGCTACAACGA ACTACGTG	32140
9517	1513	CUCUCCAU A UUCUCCAA	9219	TTGGAGAA GGCTAGCTACAACGA ATGGAGAG	32141
9538	1492	UAGUGUGU A UGAAGGCG	9226	CGCCTTCA GGCTAGCTACAACGA ACACACTA	32142
9655	1375	CACUUCGU A CUUGAUUU	9240	ATATCAAG GGCTAGCTACAACGA ACGAAGTG	32143
9662	1368	UACUUGAU A UUCUCUUU	9242	AAAGAGAA GGCTAGCTACAACGA ATCAAGTA	32144
9687	1343	UUCUUCU A UUGCCUUG	9253	CAAGGCAA GGCTAGCTACAACGA AGGAAGAA	32145
9923	1107	GCCUCCAU A UUCAUCAU	9289	ATGATGAA GGCTAGCTACAACGA ATGGAGGC	32146
10165	865	CAGGCAU A UCCAGGGU	9327	ACCTTGGA GGCTAGCTACAACGA ATGCCCTG	32147
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10207	823	UACCAAU A CCUUGUGG	9340	CCACAAGG GGCTAGCTACAACGA ATTTGGTA	32149
10333	697	UCUCCAU A CCUGACGU	9365	ACGTCAGG GGCTAGCTACAACGA ATGGAAGA	32150
10388	642	GGAUCAUU A CCAGCCGA	9375	TCGGCTGG GGCTAGCTACAACGA AATGATCC	32151
10424	606	GUGAUAGU A UCAUCGCA	9380	TGCGATGA GGCTAGCTACAACGA ACTATCAC	32152
10438	592	GCACAUGU A UCCCAU	9383	ATGTGGGA GGCTAGCTACAACGA ACATGTGC	32153
10524	506	UAGCAUUU A CGCUCAUC	9401	GATGACGG GGCTAGCTACAACGA AAGTGCTA	32154
10572	458	CUGCUCCU A CGCUGCGG	9412	CGCCAGCG GGCTAGCTACAACGA AGGAGCAG	32155
10803	227	CAAAUCGU A UUGGCCCC	9464	GGGGCCAA GGCTAGCTACAACGA ACGATTTG	32156
10889	141	UUUAGCAU A UUGACAGC	9482	GCTGTCAA GGCTAGCTACAACGA ATGTAAA	32157
10997	33	CAAACACU A CUAAGUUU	9506	AAACTTAG GGCTAGCTACAACGA AGTGTTTG	32158
18	11012	GUUCUCGC A CCACCAGC	9513	GCTGGTGG GGCTAGCTACAACGA GCGAGAAC	32159
21	11009	CUCGCACC A CCAGCCAC	9515	GTGGCTGG GGCTAGCTACAACGA GGTGCGAG	32160
28	11002	CACCAGCC A CCAUUGUC	9519	GACAATGG GGCTAGCTACAACGA GGCTGGTG	32161
31	10999	CAGCCACC A UUGUCGGC	9521	GCCGACAA GGCTAGCTACAACGA GGTGGCTG	32162
42	10988	GUCGCGC A CUGUGCCG	9522	GGCAGCAG GGCTAGCTACAACGA GCGCGAC	32163
131	10899	UUUGUGG A CGGGGUCU	9537	AGACCCCG GGCTAGCTACAACGA GCCAATA	32164
142	10888	GGGUCUCC A CUAACCTC	9540	GAGGTTAG GGCTAGCTACAACGA GGAGACCC	32165
195	10835	GGCCGUGC A CUUUAAC	9559	GTTTAAAG GGCTAGCTACAACGA GCACGGCC	32166
247	10783	UGGUUAAC A CCAUUAAC	9574	GGTAATGG GGCTAGCTACAACGA GTTAACCA	32167
250	10780	UUAACACC A UUACCGGG	9576	CCCGGTAA GGCTAGCTACAACGA GGTGTAA	32168
313	10717	CCUGGGGC A CUAUCGCA	9589	TGCGATAG GGCTAGCTACAACGA GCCCAGG	32169
328	10702	CAGACUGC A CUCUCCG	9593	GCGGAGAG GGCTAGCTACAACGA GCAGTCTG	32170
345	10685	AGAGUAGC A CGCCGUAG	9598	CTACGGCG GGCTAGCTACAACGA GCTACTCT	32171
365	10665	GGUCUGAC A UUGGGCUU	9601	AAGCCCAA GGCTAGCTACAACGA GTCAGACC	32172
386	10644	GUUACAAC A UGUGGGGU	9604	ACCCACA GGCTAGCTACAACGA GTTGTAA	32173
425	10605	GGGCUUAC A UGGAUCAC	9612	GTGATCCA GGCTAGCTACAACGA GTAAGCCC	32174
432	10598	CAUGGAUC A CUUCGCGG	9613	CCGCGAAG GGCTAGCTACAACGA GATCCATG	32175
449	10581	CUUUGUUC A CCCAGUCC	9616	GGAAGTGG GGCTAGCTACAACGA GAACAAG	32176
482	10548	CAGGCAGC A CCGUCUAC	9625	GTAGACGG GGCTAGCTACAACGA GCTGCCTG	32177
555	10475	CUAUUUAC A CUAACACC	9644	GGTGTTAG GGCTAGCTACAACGA GTAAATAG	32178
561	10469	ACACUAA A CCACUAAA	9646	TTTAGTGG GGCTAGCTACAACGA GTTAGTGT	32179
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587	10443	AAAACUAC A CUUUUUG	9653	CTATAAAG GGCTAGCTACAACGA GTAGTTT	32181
597	10433	UUUUUAGC A UACUUUA	9655	TATAAGTA GGCTAGCTACAACGA GCATAAAA	32182
668	10362	GUGUCUUC A UAUCUCUU	9668	AAGAGATA GGCTAGCTACAACGA GAAGACAC	32183
687	10343	GUGAACUC A UGUAAUCC	9672	GGATTACA GGCTAGCTACAACGA GAGTTCAC	32184

696	10334	UGUAAUCC A CAUACUUC	9674	GAAGTATG GGCTAGCTACAACGA GGATTACA	32185
698	10332	UAAUCCAC A UACUUCUC	9675	GAGAAGTA GGCTAGCTACAACGA GTGGATTA	32186
707	10323	UACUUCUC A UCUCCGAU	9678	ATCGGAGA GGCTAGCTACAACGA GAGAAGTA	32187
741	10289	UGAUAGCC A CCUGGAUG	9685	CATCCAGG GGCTAGCTACAACGA GGCTATCA	32188
760	10270	UUCUGCCC A CGUGGCUC	9691	GAGCCACG GGCTAGCTACAACGA GGGCAGAA	32189
794	10236	AGGCUGCC A CACCAGAU	9700	ATCTGGTG GGCTAGCTACAACGA GGCAGCCT	32190
796	10234	GCUGCCAC A CCAGAUGU	9701	ACATCTGG GGCTAGCTACAACGA GTGGCAGC	32191
833	10197	GGGACGUC A CUCCAUIU	9709	AAATGGAG GGCTAGCTACAACGA GACGTCCC	32192
838	10192	GUCACUCC A UUUCUCCA	9712	TGGAGAAA GGCTAGCTACAACGA GGAGTGAC	32193
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868	10162	UUCCAUCC A UUCAUUCU	9721	AGAATGAA GGCTAGCTACAACGA GGATGGAA	32196
872	10158	AUCCAUIU A UUCUCCUC	9722	GAGGAGAA GGCTAGCTACAACGA GAATGGAT	32197
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909	10121	CCUCCAAC A UGUCCUCU	9736	AGAGGACA GGCTAGCTACAACGA GTTGGAGG	32199
924	10106	CUGUUGUC A UCCACUCU	9740	AGAGTGGA GGCTAGCTACAACGA GACACAG	32200
928	10102	UGUCAUCC A CUCUCCUC	9742	GAGGAGAG GGCTAGCTACAACGA GGATGACA	32201
941	10089	CCUCCUGC A UGGAUGGA	9749	TCCATCCA GGCTAGCTACAACGA GCAGGAGG	32202
952	10078	GAUGGACC A CGUGGUUC	9751	GAACCACG GGCTAGCTACAACGA GGTCCATC	32203
981	10049	CCCAAUUC A CAGGGACA	9757	TGTCCCTG GGCTAGCTACAACGA GAATTGGG	32204
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1175	9855	GUUCUUCU A UCUUCAU	9805	ATGAAAGA GGCTAGCTACAACGA GGAAGAAC	32213
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1237	9793	AUCAUACC A UCCAGUUG	9818	CAACTGGA GGCTAGCTACAACGA GATTGAT	32216
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1284	9746	CCUUUGAC A UAGCAUUG	9828	CAATGCTA GGCTAGCTACAACGA GTCAAAGG	32218
1289	9741	GACAUAGC A UUGAGGAA	9829	TTCTCTAA GGCTAGCTACAACGA GCTATGTC	32219
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1340	9690	UUUACCAC A CAGUCAUC	9836	GATGACTG GGCTAGCTACAACGA GTGGTAAA	32221
1346	9684	ACACAGUC A UCUCACU	9838	AGTGGAGA GGCTAGCTACAACGA GACTGTGT	32222
1352	9678	UCAUCUCC A CUGACAGC	9841	GCTGTCTG GGCTAGCTACAACGA GGAGATGA	32223
1362	9668	UGACAGCC A UGCGGCTG	9845	CAGCCGCA GGCTAGCTACAACGA GGCTGTCA	32224
1385	9645	UCUCCCCC A UUCUCAA	9852	TTTGAGAA GGCTAGCTACAACGA GGGGAAGA	32225
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1442	9588	UUCUCCAC A UCAUCUGG	9869	CCAGATGA GGCTAGCTACAACGA GTGGAGAA	32227
1445	9585	UCCACAUC A UCUGGGCC	9870	GGCCCAGA GGCTAGCTACAACGA GATGTGGA	32228
1458	9572	GGCCAAUC A CUCCUCC	9874	GGAAGGAG GGCTAGCTACAACGA GATTGGCC	32229
1473	9557	CCCCUCC A UCAUCCUC	9883	GAGGATGA GGCTAGCTACAACGA GGAAGGGG	32230
1476	9554	CUCCAUC A UCCUCACC	9884	GGTGAGGA GGCTAGCTACAACGA GATGGAAG	32231
1482	9548	UCAUCCUC A CCAGCUGG	9887	CCAGCTGG GGCTAGCTACAACGA GAGGATGA	32232
1538	9492	ACUUGUCC A CUCCCCU	9896	AGGGGGAG GGCTAGCTACAACGA GCACAGT	32233
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1572	9458	UAACAUCC A UGACGUAU	9909	AACCGTCA GGCTAGCTACAACGA GGATGTTA	32235
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1602	9428	CCGGGCGC A UCACUUUC	9916	GAAAGTGA GGCTAGCTACAACGA GCGCCCGG	32237
1605	9425	GGCGCAUC A CUUUCACA	9917	TGTGAAAG GGCTAGCTACAACGA GATGCGCC	32238
1611	9419	UCACUUUC A CAACUUUG	9919	CRAAGTTG GGCTAGCTACAACGA GAAAGTGA	32239
1670	9360	UGUUCCCC A UCAAGCAG	9932	CTGCTTGA GGCTAGCTACAACGA GGGGAACA	32240
1686	9344	GCUCAAGC A CCUAGCU	9937	AGCTAAGG GGCTAGCTACAACGA GCTTGAGC	32241
1697	9333	UUAGCUUC A UUUUCCAA	9941	TTTGAAAA GGCTAGCTACAACGA GAAGCTAA	32242
1745	9285	GCUGUGUC A UCAGCAUA	9953	TATGCTGA GGCTAGCTACAACGA GACACAGC	32243
1751	9279	UCAUCAGC A UAGAUCUU	9955	AAGATCTA GGCTAGCTACAACGA GCTGATGA	32244
1784	9246	CCAACUUC A CGCAGGAU	9966	ATCCTGCG GGCTAGCTACAACGA GAAGTTGG	32245
1826	9204	CCCUCGAC A CCUCCUCC	9977	GGAGGAGG GGCTAGCTACAACGA GTCGAGGG	32246
1865	9165	UGUCUUC A UUGAGAAA	9991	TTTCTCAA GGCTAGCTACAACGA GAAGACCA	32247

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1983	9047	UCCCCAUC A UGUUGUAA	10026	TTACAACA	GGCTAGCTACAACGA	GATGGGAA	32251
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2043	8987	CAUCCACC A UCUCCCAA	10044	TTGGGAGA	GGCTAGCTACAACGA	GGTGGATG	32255
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2235	8795	CGUACUUC A CUCCUUCU	10095	AGAAGGAG	GGCTAGCTACAACGA	GAAGTACG	32265
2268	8762	UCGUGUCC A CCUUCUCU	10103	AGAGAAGG	GGCTAGCTACAACGA	GGACACGA	32266
2283	8747	CUUUGAAC A CUCGCGC	10108	GCACGCG	GGCTAGCTACAACGA	GTTCAAAG	32267
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2333	8697	GUGGUAAC A UUCGUGAU	10118	ATCAGGAA	GGCTAGCTACAACGA	GTTACCAC	32270
2350	8680	GGUGUCC A UGGUUUUG	10121	CAAAACCA	GGCTAGCTACAACGA	GGGACACC	32271
2373	8657	GCCUGACC A CUCCAUG	10125	CAATGGAG	GGCTAGCTACAACGA	GGTCAGGC	32272
2378	8652	ACCACUCC A UUGACCAG	10128	CTGGTCAA	GGCTAGCTACAACGA	GGAGTGGT	32273
2412	8618	UGGGCUUC A CAUCAUAA	10135	TTATGATG	GGCTAGCTACAACGA	GAAGCCCA	32274
2414	8616	GGCUUCAC A UCAUAACU	10136	AGTTATGA	GGCTAGCTACAACGA	GTGAAGCC	32275
2417	8613	UUCACAUC A UAACUGCC	10137	GGCAGTTA	GGCTAGCTACAACGA	GATGTGAA	32276
2459	8571	UGGUUCUC A UCGUGGUG	10144	CACCACGA	GGCTAGCTACAACGA	GAGAACCA	32277
2470	8560	GUGGUGCC A CGUCGAAC	10146	GTTTCGAC	GGCTAGCTACAACGA	GGCACCAC	32278
2486	8544	CUGUACUC A CGCCUGAG	10149	CTCAGGCG	GGCTAGCTACAACGA	GGCTACAG	32279
2550	8480	GUUUUCCC A CCGCCUG	10161	CAGGCGCG	GGCTAGCTACAACGA	GGGAAAAC	32280
2564	8466	CUGGUUCC A CUUCCCAA	10167	TTGGGAAG	GGCTAGCTACAACGA	GGAACCAG	32281
2579	8451	AAGUUUAC A UCUUCCUC	10172	GAGGAAGA	GGCTAGCTACAACGA	GTAAACTT	32282
2619	8411	UUUUUCC A UUCUCCU	10184	AGGAAGAA	GGCTAGCTACAACGA	GGAAAAAA	32283
2634	8396	CUAGGAGC A CCUGGCUG	10188	CAGCCAGG	GGCTAGCTACAACGA	GCTCCTAG	32284
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2652	8378	UCAUAUUC A CUGAAUGU	10193	ACATTTCAG	GGCTAGCTACAACGA	GAATATGA	32286
2664	8366	AAUGUACC A CAUUGCCU	10196	AGGCAATG	GGCTAGCTACAACGA	GGTACATT	32287
2666	8364	UGUACCAC A UUGCCUGA	10197	TCAGGCAA	GGCTAGCTACAACGA	GTGGTACA	32288
2685	8345	CUCGACUC A CCCAAUAC	10202	GTATTGGG	GGCTAGCTACAACGA	GAGTCGAG	32289
2694	8336	CCCAAUAC A UCUCGUGC	10206	GCACGAGA	GGCTAGCTACAACGA	GTATTGGG	32290
2744	8286	CCCCCCC A UACCGGCG	10219	CGCCGGTA	GGCTAGCTACAACGA	GGGGGGGG	32291
2766	8264	GCAGCUC A UCUCUCU	10224	AGAGAAGA	GGCTAGCTACAACGA	GGAGCTGC	32292
2787	8243	CUUUCGCG A UGUAGGGG	10229	CCCCTACA	GGCTAGCTACAACGA	GCCGAAAG	32293
2802	8228	GGCAGAGC A CCUUCACG	10231	CGTGAAGG	GGCTAGCTACAACGA	GCTCTGCC	32294
2808	8222	GCACCUUC A CGCAAAU	10234	ATTTTGCG	GGCTAGCTACAACGA	GAAGGTGC	32295
2850	8180	CCUCAACC A UUUCAAGG	10249	CTTGAAA	GGCTAGCTACAACGA	GGTTGAGG	32296
2891	8139	ACCUCAGC A CUUGACGA	10261	TCGTCAAG	GGCTAGCTACAACGA	GCTGAGGT	32297
2915	8115	CCGAUGUC A CAAAGGAG	10266	CTCCTTTG	GGCTAGCTACAACGA	GACATCGG	32298
2930	8100	AGGGUGUC A CAACACUC	10268	GAGTGTG	GGCTAGCTACAACGA	GACACCCT	32299
2935	8095	GUCACAAC A CUCAGAAG	10270	CTTCTGAG	GGCTAGCTACAACGA	GTGTGAC	32300
2955	8075	UGUAGAAC A CAUCCACU	10274	AGTGATG	GGCTAGCTACAACGA	GTTCTACA	32301
2957	8073	UAGAACAC A UCCACUCC	10275	GGAGTGGA	GGCTAGCTACAACGA	GTGTTCTA	32302
2961	8069	ACACAUCC A CUCCACUC	10277	GAGTGAG	GGCTAGCTACAACGA	GGATGTGT	32303
2966	8064	UCCACUCC A CUCUUAU	10280	ATGAAGAG	GGCTAGCTACAACGA	GGAGTGGA	32304
2973	8057	CACUCUUC A UGGUGACA	10283	TGTCACCA	GGCTAGCTACAACGA	GAAGATG	32305
2989	8041	AAUGUUC A UCCAUAAC	10286	GTTATGGA	GGCTAGCTACAACGA	GGAACATT	32306
2993	8037	UUCCAUCC A UAACUUUG	10288	CAAAGTTA	GGCTAGCTACAACGA	GGATGGAA	32307
3003	8027	AACUUUGC A CUAGUUGG	10290	CCAAGTAG	GGCTAGCTACAACGA	GCAAAGTT	32308
3020	8010	GGCUCUUC A UGUCCGGG	10294	CCCGGACA	GGCTAGCTACAACGA	GAAGAGCC	32309
3078	7952	GGGUUGCC A UAUAGUAA	10309	TTACTATA	GGCTAGCTACAACGA	GGCAACCC	32310

3088	7942	AUAGUAAC A CCAACCGC	10310	GCGGTTGG GGCTAGCTACAACGA GTTACTAT	32311
3104	7926	CCUCUUC A CAUCCAAG	10318	CTTGGATG GGCTAGCTACAACGA GGAAGAGG	32312
3106	7924	UCUCCAC A UCCAAGGU	10319	ACCTTGGA GGCTAGCTACAACGA GTGGAAGA	32313
3120	7910	GGUCAAUC A CUUUCCG	10323	CGGAAAAG GGCTAGCTACAACGA GATTGACC	32314
3160	7870	GACCAGCC A UCUCAGUU	10333	AACTGAGA GGCTAGCTACAACGA GGCTGGTC	32315
3206	7824	CCAGUGAC A UUGCCUUC	10347	GAAGGCAA GGCTAGCTACAACGA GTCAGTGG	32316
3294	7736	CUUUUGUC A UCUGGUUG	10364	CAACCAGA GGCTAGCTACAACGA GACAAAAG	32317
3347	7683	UUUGCCCC A CCUCUUUU	10381	AAAAGAGG GGCTAGCTACAACGA GGGGCAAA	32318
3372	7658	GUUUUUC A UGUUCUUU	10388	AAAGAACA GGCTAGCTACAACGA GGA AAAAC	32319
3391	7639	GAGUGUCC A UGUUAUGG	10391	CCATAACA GGCTAGCTACAACGA GGACACTC	32320
3406	7624	GGAUAGAC A UGACAACC	10392	GTTTGTCA GGCTAGCTACAACGA GTCTATCC	32321
3422	7608	CAACCCCC A CGCAUGAU	10400	ATCATGCG GGCTAGCTACAACGA GGGGGTTG	32322
3426	7604	CCCCACGC A UGAUGUGG	10401	CCACATCA GGCTAGCTACAACGA GCGTGGGG	32323
3479	7551	CUUGCUCC A UUCUCCCA	10411	TGGGAGAA GGCTAGCTACAACGA GGAGCAAG	32324
3495	7535	AAAGCGUC A CCGCUGCG	10416	CGCAGCGG GGCTAGCTACAACGA GACGCTTT	32325
3540	7490	CUGUCUUC A CAGACGGG	10426	CCCGTCTG GGCTAGCTACAACGA GAAGACAG	32326
3552	7478	ACGGGUUC A CUACUACU	10428	AGTAGTAG GGCTAGCTACAACGA GAACCCGT	32327
3573	7457	CUAGAGAC A CCAAGAU	10434	GATCTTGG GGCTAGCTACAACGA GTCTCTAG	32328
3585	7445	AGAUCAGC A UGAUCUGU	10438	ACAGATCA GGCTAGCTACAACGA GCTGATCT	32329
3609	7421	UCUUCUGC A UGAUGGGU	10445	ACCCATCA GGCTAGCTACAACGA GCAGAAGA	32330
3651	7379	CCGUGGCC A CGAUGCCA	10451	TGGCATCG GGCTAGCTACAACGA GGCCACGG	32331
3659	7371	ACGAUGCC A UCCACUAC	10453	GTAAGTGA GGCTAGCTACAACGA GGCATCGT	32332
3663	7367	UGCCAUCC A CUACAGCG	10455	CGCTGTAG GGCTAGCTACAACGA GGATGGCA	32333
3678	7352	CGUUCUUC A UGAUCCG	10459	CGGAATCA GGCTAGCTACAACGA GAAGAACG	32334
3714	7316	CUGAGCGC A UUGCCUCA	10467	TGAGGCAA GGCTAGCTACAACGA GCGCTCAG	32335
3741	7289	CGGGAACC A UGUAGGCA	10476	TGCCTACA GGCTAGCTACAACGA GGTTCGCG	32336
3749	7281	AUGUAGGC A UAGUGGCA	10477	TGCCACTA GGCTAGCTACAACGA GCCTACAT	32337
3811	7219	UCCCCAGC A UCCGGCUG	10487	CAGCCGGA GGCTAGCTACAACGA GCTGGGGA	32338
3837	7193	GAGCCGAC A CUCCAACA	10493	TGTTGGAG GGCTAGCTACAACGA GTCGGCTC	32339
3845	7185	ACUCCAAC A UCGACGAA	10497	TTCGTCGA GGCTAGCTACAACGA GTTGAGT	32340
3884	7146	AAUAGUGC A CUUGCCUG	10500	CAGGCAAG GGCTAGCTACAACGA GCACTATT	32341
3975	7055	CUGUUGUC A CAGCGUAC	10511	GTACGCTG GGCTAGCTACAACGA GACAACAG	32342
4029	7001	ACUCUCCC A UGCUGAAA	10527	TTTCAGCA GGCTAGCTACAACGA GACATAGT	32343
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4107	6923	GCCAACCC A UCUCGUUG	10551	CAACGAGA GGCTAGCTACAACGA GGGTTGGC	32345
4122	6908	UGGCUGCC A CUGCGCUC	10555	GAGCGCAG GGCTAGCTACAACGA GGCAGCCA	32346
4131	6899	CUGCGCUC A CAAGGGUC	10558	GACCCCTG GGCTAGCTACAACGA GAGCGCAG	32347
4140	6890	CAAGGGUC A UGACACAA	10560	TTGTGTCA GGCTAGCTACAACGA GACCCCTG	32348
4145	6885	GUCAUGAC A CAAAUACAG	10561	CTGATTG GGCTAGCTACAACGA GTCATGAC	32349
4158	6872	UCAGGAAC A CGGCUAGC	10564	GCTAGCCG GGCTAGCTACAACGA GTTCTGTA	32350
4212	6818	GAAUAGC A CAUCAUC	10574	GATGATTG GGCTAGCTACAACGA GCTAATTC	32351
4218	6812	GCACAAUC A UCAAGAGA	10576	TCTCTTGA GGCTAGCTACAACGA GATTGTGC	32352
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4275	6755	CUUCAGCC A UCCAACAG	10588	CTGTTGGA GGCTAGCTACAACGA GGCTGAAG	32354
4347	6683	UCCGCUGC A UGAGGAGG	10612	CCTCCTCA GGCTAGCTACAACGA GCAGCGGA	32355
4368	6662	AUACUCCC A UGGUCAUC	10616	GATGACCA GGCTAGCTACAACGA GGGAGTAT	32356
4374	6656	CCAUGGUC A UCACACUC	10617	GAGTGTGA GGCTAGCTACAACGA GACCATGG	32357
4377	6653	UGGUCAUC A CACUCAAU	10618	ATTGAGTG GGCTAGCTACAACGA GATGACCA	32358
4379	6651	GUCAUCAC A CUCAAUA	10619	TTATTGAG GGCTAGCTACAACGA GTGATGAC	32359
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4437	6593	CCAGGGCC A UUCUGUGA	10634	TCACAGAA GGCTAGCTACAACGA GGCCCTGG	32361
4473	6557	CAGUGGCC A CAACGUAC	10646	GTACGTTG GGCTAGCTACAACGA GGCCACTG	32362
4482	6548	CAACGUAC A UGGUGUCA	10648	TGACACCA GGCTAGCTACAACGA GTACGTTG	32363
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4512	6518	UCUCCCC A UGAAGUGC	10658	GCACTTCA GGCTAGCTACAACGA GGGGAAGA	32365
4527	6503	GCUCAGGC A UCUCUCCC	10661	GGGAAAGA GGCTAGCTACAACGA GCCTGAGC	32366
4617	6413	CCGAGUAC A CCCUGGCG	10682	CGCCAGGG GGCTAGCTACAACGA GTACTCGG	32367
4658	6372	UUCCUUUC A CCAAGCUU	10695	AAGCTTGG GGCTAGCTACAACGA GAAAGGAA	32368
4680	6350	UGACUUC A CUUCGUUG	10701	CAACGAAG GGCTAGCTACAACGA GGAAGTCA	32369
4721	6309	CUAGGACC A UCAAGCA	10708	TGCTTTGA GGCTAGCTACAACGA GGTCTAG	32370
4729	6301	AUCAAGC A CCACUCC	10710	GGAGGTGG GGCTAGCTACAACGA GCTTTGAT	32371
4732	6298	AAAGCACC A CCUCGGU	10712	ACCGGAGG GGCTAGCTACAACGA GGTGCTTT	32372
4752	6278	GGUAGAC A CUCCAGCC	10716	GGCTGGAG GGCTAGCTACAACGA GTCATACC	32373

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4860	6170	CCCCAUCC A UGUUAUUAU	10752	ATATACCA GGCTAGCTACAACGA GGATGGGG	32375
4877	6153	ACCUUCUC A CGCUCUGG	10756	CCAGAGCG GGCTAGCTACAACGA GAGAAGGT	32376
4917	6113	CGUUUGGC A UGUUGAUG	10761	CATCAACA GGCTAGCTACAACGA GCCAAACG	32377
4935	6095	UGUCCAGC A UGAUUCGU	10764	ACGAATCA GGCTAGCTACAACGA GCTGGACA	32378
4979	6051	UCGUUCUC A UUCGUGUG	10771	CACACGAA GGCTAGCTACAACGA GAAGACGA	32379
4994	6036	UGCCCCC A UAACAGUA	10777	TACTGTTA GGCTAGCTACAACGA GGGGGGCA	32380
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5009	6021	UACUCAUC A CCAACUUG	10781	CAAGTTGG GGCTAGCTACAACGA GATGAGTA	32382
5042	5988	AUACGUCC A CGUCUCUG	10788	CAGAGACG GGCTAGCTACAACGA GGACGTAT	32383
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5070	5960	CUGCUGUC A CUGCAGAU	10795	ATCTGCAG GGCTAGCTACAACGA GACAGCAG	32385
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5130	5900	UUGGUUUC A CACUCUUC	10812	GAAGAGTG GGCTAGCTACAACGA GAAACCAA	32387
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5151	5879	UGUCAUUC A CCCUGCUC	10819	GAGCAGGG GGCTAGCTACAACGA GATTGACA	32389
5178	5852	UAGCCCC A UUUCAGAU	10830	ATCTGAAA GGCTAGCTACAACGA GGGGGCTA	32390
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5285	5745	UUUCCAGC A CGUUGUAG	10851	CTACAACG GGCTAGCTACAACGA GCTGGAAA	32393
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5316	5714	CAUUCCCC A UCUUGACA	10859	TGTCAGA GGCTAGCTACAACGA GGGGAATG	32395
5324	5706	AUCUUGAC A CUAGGCAC	10861	GTGCCTAG GGCTAGCTACAACGA GTCAGAT	32396
5331	5699	CACUAGGC A CAAACCAA	10863	TTGGTTTG GGCTAGCTACAACGA GCCTAGTG	32397
5368	5662	UGUGAUCC A UUCGUUUC	10873	GATACGAA GGCTAGCTACAACGA GGATCACA	32398
5475	5555	UGGCUGUC A UGAUUAUU	10889	AATATTCA GGCTAGCTACAACGA GACAGCCA	32399
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5571	5459	CAUCCAUC A CGAACAGG	10913	CCTGTTTC GGCTAGCTACAACGA GATGGATG	32402
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5642	5388	CACAUGAC A UCAACAAU	10926	ATTGTTGA GGCTAGCTACAACGA GTCATGTG	32408
5654	5376	ACAUCUC A UUUCCAUA	10930	AATGGAAA GGCTAGCTACAACGA GAGATTGT	32409
5660	5370	UCAUUUCC A UUAUGUUC	10932	GAACATAA GGCTAGCTACAACGA GGAATGA	32410
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5724	5306	CUUCAGCC A UCUCAGCA	10947	TGCTGAGA GGCTAGCTACAACGA GGCTGAAG	32412
5736	5294	CAGCAGCC A CAACCCUG	10952	CAGGGTTG GGCTAGCTACAACGA GCTCTGTG	32413
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5871	5159	UCCUCAGC A UCUCAGGU	10982	ACCTGAGA GGCTAGCTACAACGA GCTGAGGA	32415
5903	5127	AUUGGCUC A UCCAUCU	10988	AGGATGGA GGCTAGCTACAACGA GAGCCAAT	32416
5907	5123	GCUCAUCC A UCCUUUCA	10990	TGAAGGA GGCTAGCTACAACGA GGATGAGC	32417
5915	5115	AUCCUUUC A CCCUGCAC	10993	GTGCAGGG GGCTAGCTACAACGA GAAAGGAT	32418
5922	5108	CACCCUGC A CUAUCGCG	10997	CGCGATAG GGCTAGCTACAACGA GCAGGGTG	32419
5952	5078	CGUUGGGC A UUAUGACU	11001	AGTCATAA GGCTAGCTACAACGA GCCCAACG	32420
5963	5067	AUGACUCC A UUGCCAUA	11004	TATGGCAA GGCTAGCTACAACGA GGAGTCAT	32421
5969	5061	CCAUUGCC A UAAAGCCC	11006	GGGCTTTA GGCTAGCTACAACGA GGCAATGG	32422
5982	5048	GCCCAUUC A CAUACCCG	11010	CGGTGATG GGCTAGCTACAACGA GATTGGGC	32423
5984	5046	CCAAUCAC A UCACCGUU	11011	AACGGTGA GGCTAGCTACAACGA GTGATTGG	32424
5987	5043	AUCACAUC A CCGUUUUU	11012	AAAAACGG GGCTAGCTACAACGA GATGTGAT	32425
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6129	4901	CCACAUC A UCUGCACC	11046	GGTGCAGA GGCTAGCTACAACGA GATTGTGG	32431
6135	4895	UCAUCUGC A CCUCAUCC	11048	GGATGAGG GGCTAGCTACAACGA GCAGATGA	32432
6140	4890	UGCACCUC A UCCUGCCC	11051	GGGCAGGA GGCTAGCTACAACGA GAGGTGCA	32433
6154	4876	CCCGUUC A CUUGUGCU	11057	AGCACAAG GGCTAGCTACAACGA GGAACGGG	32434
6206	4824	UCCUUGAC A CUGCCCCA	11071	TGGGGCAG GGCTAGCTACAACGA GTCAAGGA	32435
6243	4787	CUCCGCUC A UCAAAGCG	11085	CGCTTTGA GGCTAGCTACAACGA GAGCGGAG	32436

6287	4743	UGGAAAAC A CCUUAAC	11092	GTTGAAGG GGCTAGCTACAACGA GTTTTCCA	32437
6297	4733	CUUCAACC A UCACGCC	11097	GGGCGTGA GGCTAGCTACAACGA GGTGAAG	32438
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6335	4695	AGCAGCCC A CGAGUCAU	11110	ATGACTCG GGCTAGCTACAACGA GGGCTGCT	32440
6342	4688	CACGAGUC A UGAUCCUG	11111	CAGGATCA GGCTAGCTACAACGA GACTCGTG	32441
6406	4624	AGUGUCCC A CAACACGC	11125	GCGTGTG GGCTAGCTACAACGA GGGACACT	32442
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6507	4523	GACAGACC A UUCUGAGC	11148	GCTCAGAA GGCTAGCTACAACGA GGTCTGTC	32445
6516	4514	UUCUGAGC A UCCAUAUC	11150	GATATGGA GGCTAGCTACAACGA GCTCAGAA	32446
6520	4510	GAGCAUCC A UAUCUCC	11152	GGAAGATA GGCTAGCTACAACGA GGATGCTC	32447
6545	4485	CCUGGAUC A UUCAUGAG	11159	CTCATGAA GGCTAGCTACAACGA GATCCAGG	32448
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6569	4461	UUUCCAUC A UCAUCAAG	11164	CTTGATGA GGCTAGCTACAACGA GATGAAA	32451
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6582	4448	CAAGCCGC A CAUCAACU	11168	AGTTGATG GGCTAGCTACAACGA GCGGCTTG	32453
6584	4446	AGCCGCAC A UCAACUCU	11169	AGAGTTGA GGCTAGCTACAACGA GTGCGGCT	32454
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6657	4373	CAAUCCAC A UAUCUGUU	11190	AACAGATA GGCTAGCTACAACGA GTGGATTG	32458
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6726	4304	GAAUGGCC A UGGAGUCA	11204	TGACTCCA GGCTAGCTACAACGA GGCCATTC	32462
6771	4259	UGGCAAAC A UUAGGCCG	11216	CGGCCTAA GGCTAGCTACAACGA GTTGCCA	32463
6789	4241	CAGCUGUC A UCACUUA	11220	TGAAGTGA GGCTAGCTACAACGA GCAGCTG	32464
6792	4238	CUGUCAUC A CUUCAGUU	11221	AACTGAAG GGCTAGCTACAACGA GATGACAG	32465
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6987	4043	UCCUGUAC A CAUCCAGA	11271	TCTGGATG GGCTAGCTACAACGA GTACAGGA	32473
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7044	3986	GAACAACC A CGUUUGAU	11286	ATCAAACG GGCTAGCTACAACGA GGTGTTC	32476
7083	3947	UCAGUAUC A UCCAAGCU	11290	AGCTTGA GGCTAGCTACAACGA GATATGA	32477
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7112	3918	UUAACAC A UCAGGGAU	11299	ATCCCTGA GGCTAGCTACAACGA GTGTTGAA	32479
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7158	3872	GAUAAGCC A UUUGAAAG	11308	CTTTCAA GGCTAGCTACAACGA GGCTTATC	32481
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7236	3794	AUGCCACC A UAAACACU	11326	AGTGTGTA GGCTAGCTACAACGA GGTGGCAT	32485
7242	3788	CCAUAAAC A CUGGUUGU	11327	ACAACCAG GGCTAGCTACAACGA GTTTATGG	32486
7266	3764	AGGUCGCC A UGAGCGCC	11331	GGCGCTCA GGCTAGCTACAACGA GGCGACCT	32487
7284	3746	AGUGUACC A CGUCUCCU	11335	AGGAGACG GGCTAGCTACAACGA GGTACACT	32488
7323	3707	CUGCCCCC A CCAAGAUG	11347	CATCTTGG GGCTAGCTACAACGA GGGGCGAG	32489
7334	3696	AAGAUGAC A UAGCGUAA	11350	TTACGCTA GGCTAGCTACAACGA GTCATCTT	32490
7344	3686	AGCGUAAC A CAUCAGUG	11351	CACTGATG GGCTAGCTACAACGA GTTACGCT	32491
7346	3684	CGUAACAC A UCAGUGUA	11352	TACACTGA GGCTAGCTACAACGA GTGTTACG	32492
7371	3659	CCCCAAAC A CCAGGACU	11359	AGTCCTGG GGCTAGCTACAACGA GTTTGGGG	32493
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7423	3607	GGCUGUCC A CCUCUUGC	11372	GCAAGAGG GGCTAGCTACAACGA GGACAGCC	32495
7458	3572	CCAAGAAC A CGACCAGA	11382	TCTGGTCG GGCTAGCTACAACGA GTTCTTGG	32496
7491	3539	GGUCAUUC A UAUCAGCA	11390	TGCTGATA GGCTAGCTACAACGA GATTGACC	32497
7499	3531	AUAUCAGC A UUAUAAGC	11392	GCTTATAA GGCTAGCTACAACGA GCTGATAT	32498
7508	3522	UUAUAAGC A UUCACUUG	11393	CAAGTGAA GGCTAGCTACAACGA GCTTATAA	32499

7512	3518	AAGCAUUC A CUUGUGAC	11394	GTCACAAG GGCTAGCTACAACGA GAATGCTT	32500
7524	3506	GUGACUGC A CGAGGGUC	11397	GACCCTCG GGCTAGCTACAACGA GCAGTCAC	32501
7538	3492	GUCUUUUC A UCAUGUCU	11399	AGACATGA GGCTAGCTACAACGA GAAAGAC	32502
7541	3489	UUUUCAUC A UGUCUCUG	11400	CAGAGACA GGCTAGCTACAACGA GATGAAAA	32503
7563	3467	UGAUCUCC A UACCAUAC	11406	GTATGGTA GGCTAGCTACAACGA GGAGATCA	32504
7568	3462	UCCAUAAC A UACCAACA	11408	TGTTGGTA GGCTAGCTACAACGA GGTATGGA	32505
7627	3403	CCUGCAGC A CCAAUCUG	11421	CAGATTGG GGCTAGCTACAACGA GCTGCAGG	32506
7679	3351	GCAGGUCC A CGGUGUCC	11433	GGACACCG GGCTAGCTACAACGA GGACCTGC	32507
7697	3333	CAGCUCUC A CUCAGGGU	11438	ACCCTGAG GGCTAGCTACAACGA GAGAGCTG	32508
7759	3271	UUCGUCCC A UGGGCCCU	11454	AGGGCCCA GGCTAGCTACAACGA GGGACGAA	32509
7844	3186	AUCAAGUC A CUCUCAAG	11471	CTTGAGAG GGCTAGCTACAACGA GACTTGAT	32510
7859	3171	AGGAUUCU A UCGCCCCA	11476	TGGGGCGA GGCTAGCTACAACGA GGAATCCT	32511
7867	3163	AUCGCCCC A CAAGGUAU	11480	ATACCTTG GGCTAGCTACAACGA GGGGCGAT	32512
7888	3142	CUCAGGCC A CGUACAUG	11485	CATGTACG GGCTAGCTACAACGA GGCCTGAG	32513
7894	3136	CCACGUAC A UGAUUUGA	11486	TCAAATCA GGCTAGCTACAACGA GTACGTGG	32514
7907	3123	UUGACUUC A CCCAGAAC	11488	GTTCTGGG GGCTAGCTACAACGA GAAGTCAA	32515
7933	3097	AAGCUUCC A CGUAUCAU	11499	ATGATACG GGCTAGCTACAACGA GGAAGCTT	32516
7940	3090	CACGUUAC A UUGAGCCU	11500	AGGCTCAA GGCTAGCTACAACGA GATACGTG	32517
7973	3057	GACAGGUC A CUGUGGAU	11508	ATCCACAG GGCTAGCTACAACGA GACCTGTC	32518
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8026	3004	CGAGUCAC A UUCAGUUG	11519	CAACTGAA GGCTAGCTACAACGA GTGACTCG	32520
8061	2969	UCAGGAAC A UCCGAGUG	11528	CACTCGGA GGCTAGCTACAACGA GTTCTCTG	32521
8097	2933	AAUCCUCC A CUUCUAAG	11538	CTTAGAAG GGCTAGCTACAACGA GGAGGATT	32522
8134	2896	AGUCGGAC A UUCUUGG	11545	CCAAGGAA GGCTAGCTACAACGA GTCCGACT	32523
8153	2877	UCCGGACC A UCAACCAC	11551	GTGGTTGA GGCTAGCTACAACGA GGTCCGGA	32524
8160	2870	CAUCAACC A CAAAGGUG	11554	CACCTTTG GGCTAGCTACAACGA GGTGATG	32525
8274	2756	ACUUGUAC A UUCCCUCC	11575	GGAGGGAA GGCTAGCTACAACGA GTACAAGT	32526
8295	2735	UCUCAACC A CGACACUA	11584	TAGTGTGCG GGCTAGCTACAACGA GGTGAGA	32527
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8312	2718	AGGUCCAC A CCAUUCUC	11589	GAGAATGG GGCTAGCTACAACGA GTGGACCT	32530
8315	2715	UCCACACC A UUCUCCU	11591	AAGGAGAA GGCTAGCTACAACGA GGTGTGGA	32531
8349	2681	CGUCCUUC A CUGCUUCC	11600	GGAAGCAG GGCTAGCTACAACGA GAAGGACG	32532
8359	2671	UGCUUCCC A CAUUUGAU	11605	ATCAAATG GGCTAGCTACAACGA GGAAGCA	32533
8361	2669	CUUCCAC A UUUGAUGC	11606	GCATCAA GGCTAGCTACAACGA GTGGGAAG	32534
8398	2632	UAGACGCG A CACUCCU	11613	AAGGAGTG GGCTAGCTACAACGA GCGGTCTA	32535
8400	2630	GACCGCAC A CUCCUCC	11614	GGAAGGAG GGCTAGCTACAACGA GTGCGGTC	32536
8475	2555	ACCGGUCC A UCCAAGCC	11630	GGCTTGGA GGCTAGCTACAACGA GGACCGGT	32537
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8489	2541	GCCUCCAC A UCAUUGUG	11637	CACAATGA GGCTAGCTACAACGA GTGGAGGC	32539
8492	2538	UCCACAUC A UUGUGUAU	11638	ATACACAA GGCTAGCTACAACGA GATGTGGA	32540
8505	2525	GUAUGAAC A CUCCACU	11639	AAGTGGAG GGCTAGCTACAACGA GTTCATAC	32541
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8551	2479	UAUGGCAC A CCCAGUGU	11655	ACACTGGG GGCTAGCTACAACGA GTGCCATA	32546
8568	2462	CAGCGUGC A CGUUCACG	11660	CGTGAACG GGCTAGCTACAACGA GCACGCTG	32547
8574	2456	GCACGUUC A CGGAGAGG	11661	CCTCTCCG GGCTAGCTACAACGA GAACGTGC	32548
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8649	2381	UGAUGCCC A UCCACAAC	11676	GTTGTGGA GGCTAGCTACAACGA GGGCATCA	32551
8653	2377	GCCCAUCC A CAACAGGA	11678	TCCTGTTG GGCTAGCTACAACGA GGATGGGC	32552
8694	2336	UCCAGGAC A UGCCUCCG	11691	CGGAGGCA GGCTAGCTACAACGA GTCCTGGA	32553
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8763	2267	AGGUGAAC A CCCUCCA	11709	TGGAGGGG GGCTAGCTACAACGA GTTCACCT	32555
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8910	2120	UGCCACCC A CUAUGUAU	11751	ATACATAG GGCTAGCTACAACGA GTTGGGCA	32557
8973	2057	CCGUGGCC A CUGAAACA	11764	TGTTTCAG GGCTAGCTACAACGA GGCCACGG	32558
9009	2021	AUCUGCCC A CUGGCGUU	11773	AACGCCAG GGCTAGCTACAACGA GGGCAGAT	32559
9036	1994	AUGAAGCC A CUGACGAG	11777	CTGCTCAG GGCTAGCTACAACGA GGCTTCAT	32560
9065	1965	CAAGGUCC A UCCUGGCC	11782	GGCACGGA GGCTAGCTACAACGA GGACCTTG	32561
9093	1937	AUCCAAC A CCACAGUG	11790	CACTGTGG GGCTAGCTACAACGA GTTGAAT	32562

9096	1934	CCAACACC A CAGUGCCG	11792	CGGCACTG GGCTAGCTACAACGA GGTGTGG	32563
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9189	1841	AUUUUUCC A UCUUCACU	11814	AGTGAAGA GGCTAGCTACAACGA GGAAAAAT	32565
9195	1835	CCAUCUUC A CUCUACAC	11816	GTGTAGAG GGCTAGCTACAACGA GAAGATGG	32566
9202	1828	CACUCUAC A CUUCAAAU	11819	ATTTGAAG GGCTAGCTACAACGA GTAGAGTG	32567
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9367	1663	GUUCCUCC A CACAGUAC	11863	GTACTGTG GGCTAGCTACAACGA GGAGGAAC	32571
9369	1661	UCCUCCAC A CAGUACUU	11864	AAGTACTG GGCTAGCTACAACGA GTGGAGGA	32572
9383	1647	CUUCCAGC A CUGCUGCA	11869	TGGAGCAG GGCTAGCTACAACGA GCTGGAAG	32573
9408	1622	UGAGGUCC A UGAACCAC	11875	GTGGTTCA GGCTAGCTACAACGA GGACCTCA	32574
9415	1615	CAUGAACC A CUCACGAU	11877	ATCGTGAG GGCTAGCTACAACGA GGTTCATG	32575
9419	1611	AACCACUC A CGAUGGAC	11879	GTCCATCG GGCTAGCTACAACGA GAGTGGTT	32576
9453	1577	CAACAGUC A UCACGUAG	11886	CTACGTGA GGCTAGCTACAACGA GACTGTTG	32577
9456	1574	CAGUCAUC A CGUAGUAU	11887	ATACTACG GGCTAGCTACAACGA GATGACTG	32578
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9494	1536	CGUGGUUC A CAGUCCAC	11894	GTGGACTG GGCTAGCTACAACGA GAACCACG	32580
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9648	1382	AAUUGGCC A CUUCGUAC	11932	GTACGAAG GGCTAGCTACAACGA GGCCATTT	32586
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9777	1253	UGUCCACC A CUCCUUGU	11966	ACAAGGAG GGCTAGCTACAACGA GGTGGACA	32589
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9927	1103	CCAUAUUC A UCAUCUUC	12001	GAAGATGA GGCTAGCTACAACGA GAATATGG	32597
9930	1100	UAUUCAUC A UCUUCACA	12002	TGTGAAGA GGCTAGCTACAACGA GATGAATA	32598
9936	1094	UCAUCUUC A CAUCGAUG	12004	CATCGATG GGCTAGCTACAACGA GAAGATGA	32599
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10432	598	AUCAUCGC A CAUGUAUC	12132	GATACATG GGCTAGCTACAACGA GCGATGAT	32625

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10729	301	ACCUCUCC A UCGAUCCA	12203	TGGATCGA GGCTAGCTACAACGA GGAGAGGT	32641
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34	10996	CCACCAU G UCGGCGCA	12275	TGCGCCGA GGCTAGCTACAACGA AATGGTGG	32657
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311	10719	CUCCUGGG G CACUAUCG	12321	CGATAGTG GGCTAGCTACAACGA CCCAGGAG	32703
319	10711	GCACUAUC G CAGACUGC	12322	GCAGTCTG GGCTAGCTACAACGA GATAGTGC	32704
326	10704	CGCAGACU G CACUCUCC	12323	GGAGAGTG GGCTAGCTACAACGA AGTCTGCG	32705
335	10695	CACUCUCC G CAGAGUAG	12324	CTACTCTG GGCTAGCTACAACGA GGAGAGTG	32706
340	10690	UCCGCAGA G UAGCACGC	12325	GCGTGCTA GGCTAGCTACAACGA TCTGCGGA	32707
343	10687	GCAGAGUA G CACGCCGU	12326	ACGGCGTG GGCTAGCTACAACGA TACTCTGC	32708
347	10683	AGUAGCAC G CCGUAGCG	12327	CGCTACGG GGCTAGCTACAACGA GTGCTACT	32709
350	10680	AGCACGCC G UAGCGUGG	12328	CCACGCTA GGCTAGCTACAACGA GCGTGCT	32710
353	10677	ACGCCGUA G CGUGGUCU	12329	AGACCACG GGCTAGCTACAACGA TACGGCGT	32711
355	10675	GCCGUAGC G UGGUCUGA	12330	TCAGACCA GGCTAGCTACAACGA CACTCGGC	32712
358	10672	GUAGCGUG G UCUGACAU	12331	ATGTCAGA GGCTAGCTACAACGA CACGCTAC	32713
370	10660	GACAUUGG G CUUUGAAG	12332	CTTCAAAG GGCTAGCTACAACGA CCAATGTC	32714
378	10652	GCUUUGAA G UUACAACA	12333	TGTTGTAA GGCTAGCTACAACGA TTCAAAGC	32715
388	10642	UACAACAU G UGGGGUCC	12334	GGACCCA GGCTAGCTACAACGA ATGTTGTA	32716
393	10637	CAUGUGGG G UCCUCCUU	12335	AAGGAGGA GGCTAGCTACAACGA CCCACATG	32717
410	10620	CCGAGACG G UUCUGAGG	12336	CCTCAGAA GGCTAGCTACAACGA CGTCTCGG	32718
419	10611	UUCUGAGG G CUUACAUG	12337	CATGTAAG GGCTAGCTACAACGA CCTCAGAA	32719
437	10593	AUCACUUC G CGGCUUUG	12338	CAAAGCCG GGCTAGCTACAACGA GAAGTGAT	32720
440	10590	ACUUCGCG G CUUUGUUC	12339	GAACAAAG GGCTAGCTACAACGA CGCAAGT	32721
445	10585	GCGGCUUU G UUCACCCA	12340	TGGGTGAA GGCTAGCTACAACGA AAAGCCGC	32722
454	10576	UUCACCCA G UCCUCCUG	12341	CAGGAGGA GGCTAGCTACAACGA TGGGTGAA	32723
465	10565	CUCCUGGG G UUGAGUCG	12342	CGACTCAA GGCTAGCTACAACGA CCCAGGAG	32724
470	10560	GGGUUGA G UCGCAGGC	12343	GCCTGCGA GGCTAGCTACAACGA TCAACCCC	32725
473	10557	GUUGAGUC G CAGGCAGC	12344	GCTGCCTG GGCTAGCTACAACGA GACTCAAC	32726
477	10553	AGUCGCAG G CAGCACCG	12345	CGGTGCTG GGCTAGCTACAACGA CTGCGACT	32727
480	10550	CGCAGGCA G CACCGUCU	12346	AGACGGTG GGCTAGCTACAACGA TGCCTGCG	32728
485	10545	GCAGCACC G UCUACUCA	12347	TGAGTAGA GGCTAGCTACAACGA GGTGCTGC	32729
501	10529	AACUCCG G UGCGGGA	12348	TCCCGCCA GGCTAGCTACAACGA CCGAAGTT	32730
504	10526	UUCCGGUG G CGGGAACU	12349	AGTTCCCG GGCTAGCTACAACGA CACCGGAA	32731
518	10512	ACUCCCCG G CCUGACUU	12350	AAGTCAGG GGCTAGCTACAACGA CGGGAAGT	32732
595	10435	ACUUUUAU G CAUACUUA	12351	TAAGTATG GGCTAGCTACAACGA ATAAAGT	32733
608	10422	CUUAUAUU G UCUAUUUA	12352	TAAATAGA GGCTAGCTACAACGA AATATAAG	32734
637	10393	UAUCUACA G UACUGUGU	12353	ACACAGTA GGCTAGCTACAACGA TGTAGATA	32735
642	10388	ACAGUACU G UGUCCUCA	12354	TGAGGACA GGCTAGCTACAACGA AGTACTGT	32736
644	10386	AGUACUGU G UCCUCAAC	12355	GTTGAGGA GGCTAGCTACAACGA ACAGTACT	32737
657	10373	CAACCAA G UUGUGUCU	12356	AGACACAA GGCTAGCTACAACGA TTGGTTTG	32738
660	10370	CCAAAGUU G UGUUUA	12357	TGAAGACA GGCTAGCTACAACGA AACTTTTG	32739
662	10368	AAAGUUGU G UCUUCAUA	12358	TATGAAGA GGCTAGCTACAACGA ACACTTTT	32740
679	10351	UCUCUUUA G UGAACUCA	12359	TGAGTTCA GGCTAGCTACAACGA TAAAGAGA	32741
689	10341	GAACUCAU G UAUCCAC	12360	GTGGATTA GGCTAGCTACAACGA ATGAGTTC	32742
720	10310	CGAUGAUU G CUCUGACU	12361	AGTCAGAG GGCTAGCTACAACGA AATCATCG	32743
731	10299	CUGACUUG G UUGAUAGC	12362	GCTATCAA GGCTAGCTACAACGA CAAGTCAG	32744
738	10292	GGUUGAUA G CCACCUGG	12363	CCAGGTGG GGCTAGCTACAACGA TATCAACC	32745
749	10281	ACCUGGAU G UUUUCUGC	12364	GCAGAAA GGCTAGCTACAACGA ATCCAGGT	32746
756	10274	UGUUUUCU G CCACGUG	12365	CACGTGGG GGCTAGCTACAACGA AGAAAACA	32747
762	10268	CUGCCAC G UGGCUCGG	12366	CCGAGCCA GGCTAGCTACAACGA GTGGGCAG	32748
765	10265	CCCACGUG G CUCGGGCU	12367	AGCCCGAG GGCTAGCTACAACGA CACGTGGG	32749
771	10259	UGGCUCGG G CUCUUGUG	12368	CACAGAG GGCTAGCTACAACGA CCGAGCCA	32750
777	10253	GGGCUCUU G UGCAAUC	12369	GATTGCA GGCTAGCTACAACGA AAGAGCCC	32751

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788	10242	CCAAUCAG G CUGCCACA	12371	TGTGGCAG GGCTAGCTACAACGA CTGATTGG	32753
791	10239	AUCAGGCU G CCACACCA	12372	TGGTGTGG GGCTAGCTACAACGA AGCCTGAT	32754
803	10227	CACCAGAU G UCCUCUCG	12373	CGAGAGGA GGCTAGCTACAACGA ATCTGGTG	32755
811	10219	GUCCUCUC G UUUUCCUG	12374	CAGGAAAA GGCTAGCTACAACGA GAGAGGAC	32756
830	10200	UAUGGGAC G UCACUCCA	12375	TGGAGTGA GGCTAGCTACAACGA GTCCCATATA	32757
852	10178	CCACUGGG G UUUUGUCU	12376	AGACAAAA GGCTAGCTACAACGA CCCAGTGG	32758
857	10173	GGGGUUUU G UCUUCCAU	12377	ATGGAAGA GGCTAGCTACAACGA AAAACCCC	32759
893	10137	CAAACACG G UUCACAGAC	12378	GTCTGGAA GGCTAGCTACAACGA CGTGTGTTG	32760
911	10119	UCCAACAU G UCCUCUGU	12379	ACAGAGGA GGCTAGCTACAACGA ATGTTGGA	32761
918	10112	UGUCCUCU G UUGUCAUC	12380	GATGACAA GGCTAGCTACAACGA AGAGGACA	32762
921	10109	CCUCUGUU G UCAUCCAC	12381	GTGGATGA GGCTAGCTACAACGA AACAGAGG	32763
939	10091	CUCCUCCU G CAUGGAUG	12382	CATCCATG GGCTAGCTACAACGA AGGAGGAG	32764
954	10076	UGGACCAC G UGGUUCUU	12383	AAGAACCA GGCTAGCTACAACGA GTGGTCCA	32765
957	10073	ACCACGUG G UUCUUCGG	12384	CGGAAGAA GGCTAGCTACAACGA CACGTGGT	32766
966	10064	UUCUUCGG G UAGGGACC	12385	GGTCCCTA GGCTAGCTACAACGA CGGAAGAA	32767
990	10040	CAGGGACA G CGGAGCAA	12386	TTGCTCCG GGCTAGCTACAACGA TGTCCCTG	32768
995	10035	ACAGCGGA G CAAUUGGC	12387	GCCATTTG GGCTAGCTACAACGA TCCGCTGT	32769
1002	10028	AGCAAUUG G CGUUGGCC	12388	GGCCAACG GGCTAGCTACAACGA CATTGTGCT	32770
1004	10026	CAAUUGGC G UUGGCCAU	12389	ATGGCCAA GGCTAGCTACAACGA GCCATTTG	32771
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCTCATGG GGCTAGCTACAACGA CAACGCCA	32772
1015	10015	GGCCAUGA G CCGCAGGU	12391	ACCTGCGG GGCTAGCTACAACGA TCATGGCC	32773
1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCTG GGCTAGCTACAACGA GGCTCATG	32774
1022	10008	AGCCGCAG G UCUCUUCU	12393	AGAAGAGA GGCTAGCTACAACGA CTGCGGCT	32775
1031	9999	UCUCUUCU G UGGAAGUA	12394	TACTTCCA GGCTAGCTACAACGA AGAAGAGA	32776
1037	9993	CUGUGGAA G UACAGAAG	12395	CTTCTGTA GGCTAGCTACAACGA TTCCACAG	32777
1045	9985	GUACAGAA G CAGCCACA	12396	TGTGGCTG GGCTAGCTACAACGA TTCTGTAC	32778
1048	9982	CAGAAGCA G CCACAUCU	12397	AGATGTGG GGCTAGCTACAACGA TGCTTCTG	32779
1059	9971	ACAUCUGG G CAUAAGAC	12398	GTCTTATG GGCTAGCTACAACGA CCAGATGT	32780
1071	9959	AAGACUUA G CCAGACAA	12399	TTGTCTGG GGCTAGCTACAACGA TAAGTCTT	32781
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACTG GGCTAGCTACAACGA TTGTCTGG	32782
1083	9947	GACAAGCA G UGUCGCGG	12401	CCGCGACA GGCTAGCTACAACGA TGCTTGTC	32783
1085	9945	CAAGCAGU G UCGCGGAC	12402	GTCCGCGA GGCTAGCTACAACGA ACTGCTTG	32784
1088	9942	GCAGUGUC G CGGACGUU	12403	AACGTCCG GGCTAGCTACAACGA GACACTGC	32785
1094	9936	UCGCGGAC G UUCAUCC	12404	GGATGGAA GGCTAGCTACAACGA GTCCGCGA	32786
1104	9926	UCCAUCCG G CCCUUGGA	12405	TCCAGGGG GGCTAGCTACAACGA CGGATGGA	32787
1118	9912	GGAGAUUA G CGAGCUCU	12406	AGAGCTCG GGCTAGCTACAACGA ATATCTCC	32788
1122	9908	AUAUGCGA G CUCUGCCU	12407	AGGCAGAG GGCTAGCTACAACGA TCGCATAT	32789
1127	9903	CGAGCUCU G CCUACCAA	12408	TTGGTAGG GGCTAGCTACAACGA AGAGCTCG	32790
1144	9886	UUCAUCCU G UCCUCGGC	12409	CGCGAGGA GGCTAGCTACAACGA AGGATGAA	32791
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1165	9865	AACCACCA G UGUUCUUC	12411	GAAGAACA GGCTAGCTACAACGA TGGTGGTT	32793
1167	9863	CCACCAGU G UUCUCCA	12412	TGGAAGAA GGCTAGCTACAACGA ACTGTTGG	32794
1194	9836	UCAAUUCA G UGAAUUGG	12413	CCATTTCA GGCTAGCTACAACGA TGAATTGA	32795
1202	9828	GUGAAUUG G UUUGAGCA	12414	TGCTCAAA GGCTAGCTACAACGA CATTTCAC	32796
1208	9822	UGGUUUGA G CAAAUUGG	12415	CCATTTTG GGCTAGCTACAACGA TCAAACCA	32797
1222	9808	UGGAACCU G CUGCCAAU	12416	ATTGGCAG GGCTAGCTACAACGA AGGTTCCA	32798
1225	9805	AACCUGCU G CCAAUCAU	12417	ATGATTGG GGCTAGCTACAACGA AGCAGGTT	32799
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGTCAA GGCTAGCTACAACGA TGGATGGT	32800
1249	9781	AGUUGACG G UUUCCACU	12419	AGTGGAAA GGCTAGCTACAACGA CGTCAACT	32801
1265	9765	UCUUGGAU G UCUUUGCG	12420	CGCAAAGA GGCTAGCTACAACGA ATCCAAGA	32802
1271	9759	AUGUCUUU G CGAACCUC	12421	AAGGTTCTG GGCTAGCTACAACGA AAAGACAT	32803
1287	9743	UUGACAUA G CAUUGAGG	12422	CCTCAATG GGCTAGCTACAACGA TATGTCAA	32804
1298	9732	UUGAGGAA G UGGAGCGA	12423	TCGCTCCA GGCTAGCTACAACGA TTCTCTAA	32805
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1308	9722	GGAGCGAG G UGGCAAAG	12425	CTTTGCCA GGCTAGCTACAACGA CTCGCTCC	32807
1311	9719	GCGAGGUG G CAAAGCGA	12426	TCGCTTTG GGCTAGCTACAACGA CACCTCGC	32808
1316	9714	GUGGCAAA G CGAUCGUC	12427	GACGATCG GGCTAGCTACAACGA TTTGCCAC	32809
1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCCTGGA GGCTAGCTACAACGA GATCGCTT	32810
1330	9700	GUCCAGGG G CUUUACCA	12429	TGGTAAAG GGCTAGCTACAACGA CCCTGGAC	32811
1343	9687	ACCACACA G UCAUCUCC	12430	GGAGATGA GGCTAGCTACAACGA TGTGTGGT	32812
1359	9671	CACUGACA G CCAUGCGG	12431	CCGATGCG GGCTAGCTACAACGA TGTCAGTG	32813
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1367	9663	GCCAUGC G CUGAGUCU	12433	AGACTCAG GGCTAGCTACAACGA CGCATGGC	32815
1372	9658	GCGGCUGA G UCUUUCUU	12434	AAGAAAGA GGCTAGCTACAACGA TCAGCCGC	32816
1396	9634	CUCAAACA G CCAGGUCC	12435	GGACCTGG GGCTAGCTACAACGA TGTTTGAG	32817
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1414	9616	GACUUUGG G UCCUUUCC	12437	GGAAAGGA GGCTAGCTACAACGA CCAAAGTC	32819
1428	9602	UCCUUUUU G UGAGUUUC	12438	GAAACTCA GGCTAGCTACAACGA AAAAGGGA	32820
1432	9598	UUUUGUGA G UUUCUCCA	12439	TGGAGAAA GGCTAGCTACAACGA TCACAAAA	32821
1451	9579	UCAUCUGG G CCAAUCAC	12440	GTGATTGG GGCTAGCTACAACGA CCAGATGA	32822
1486	9544	CCUCACCA G CUGGACGG	12441	CCGTCCAG GGCTAGCTACAACGA TGGTGAGG	32823
1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCTGG GGCTAGCTACAACGA CGTCCAGC	32824
1499	9531	ACGGCCAG G UUGGUGAA	12443	TTCAACAA GGCTAGCTACAACGA CTGGCCGT	32825
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACTTTCA GGCTAGCTACAACGA CAACCTGG	32826
1509	9521	UGGUGAAA G UGUUUAGG	12445	CCTAAACA GGCTAGCTACAACGA TTTCACCA	32827
1511	9519	GUGAAAGU G UUUAGGGC	12446	GCCCTAAA GGCTAGCTACAACGA ACTTTCAC	32828
1518	9512	UGUUUAGG G CGUAGGUG	12447	CACCTACG GGCTAGCTACAACGA CCTAAACA	32829
1520	9510	UUUAGGGC G UAGGUGAC	12448	GTCACCTA GGCTAGCTACAACGA GCCCTAAA	32830
1524	9506	GGGCGUAG G UGACAACU	12449	AGTTGTCA GGCTAGCTACAACGA CTACGCC	32831
1534	9496	GACAACUU G UCCACUCC	12450	GGAGTGGA GGCTAGCTACAACGA AAGTTGTC	32832
1578	9452	CCAUGACG G UUCUCCA	12451	TGGAAGAA GGCTAGCTACAACGA CGTCATGG	32833
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1593	9437	CAUCAGCA G CCGGGCGC	12453	GCGCCCGG GGCTAGCTACAACGA TGCTGATG	32835
1598	9432	GCAGCCGG G CGCAUCAC	12454	GTGATGCG GGCTAGCTACAACGA CCGGCTGC	32836
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGTGATG GGCTAGCTACAACGA GCCCGGCT	32837
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1629	9401	GACGAUAG G UGAGCUCA	12457	TGAGCTCA GGCTAGCTACAACGA CTATCGTC	32839
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1644	9386	CAAUGAUG G CCCUGGCA	12459	TGCCAGGG GGCTAGCTACAACGA CATCATTG	32841
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1657	9373	GGCAAGAC G CCGAUGUU	12461	AACATCGG GGCTAGCTACAACGA GTCTTGCC	32843
1663	9367	ACGCCGAU G UUCCCAU	12462	ATGGGGAA GGCTAGCTACAACGA ATCGGCTG	32844
1675	9355	CCCAUCAA G CAGCUCAA	12463	TTGAGCTG GGCTAGCTACAACGA TGTATGGG	32845
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1684	9346	CAGCUCAA G CACCUUAG	12465	CTAAGGTG GGCTAGCTACAACGA TTGAGCTG	32847
1692	9338	GCACCUUA G CUUCAUUU	12466	AAATGAAG GGCTAGCTACAACGA TAAGGTGC	32848
1706	9324	UUUCCAA G UCAGCUCU	12467	AGAGCTGA GGCTAGCTACAACGA TTGGAATA	32849
1710	9320	CCAAGUCA G CUCUCGUG	12468	CACGAGAG GGCTAGCTACAACGA TGACTTGG	32850
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1721	9309	CUCGUGAU G CGGGUGUC	12470	GACACCGG GGCTAGCTACAACGA ATCAGGAG	32852
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1727	9303	AUGCGGGU G UCCAGCC	12472	GGCTGGGA GGCTAGCTACAACGA ACCCGCAT	32854
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1737	9293	CCCAGCCA G CUGUGUCA	12474	TGACACAG GGCTAGCTACAACGA TGGCTGGG	32856
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1768	9262	GCCCCAG G CCGGGUGC	12479	GCACCCGG GGCTAGCTACAACGA CTGGGGGC	32861
1773	9257	CAGGCCGG G UGCCAACU	12480	AGTTGGCA GGCTAGCTACAACGA CCGGCCTG	32862
1775	9255	GGCCGGGU G CCAACUUC	12481	GAAGTTGG GGCTAGCTACAACGA ACCCGGCC	32863
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1793	9237	CGCAGGAU G UAACCCAG	12483	CTGGGTTA GGCTAGCTACAACGA ATCCTGCG	32865
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1838	9192	CCUCCUGA G UUCUUUCU	12487	AGAAAGAA GGCTAGCTACAACGA TCAGGAGG	32869
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1856	9174	CCAAGCCA G UGGUCUUC	12489	GAAGACCA GGCTAGCTACAACGA TGGCTTGG	32871
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1902	9128	GAAAGCGA G CUCCGAGC	12493	GCTCGGAG GGCTAGCTACAACGA TCGCTTTC	32875
1909	9121	AGCUCCGA G CCAUAUGA	12494	TCATGTGG GGCTAGCTACAACGA TCGGAGCT	32876
1926	9104	ACCAAUG G CUCUGCUU	12495	AAGCAGAG GGCTAGCTACAACGA CATTTGGT	32877

1931	9099	AUGGCUCU G CUUCCCUU	12496	AAGGGAAG GGCTAGCTACAACGA AGAGCCAT	32878
1941	9089	UUCCCUUG G CCUUUCCG	12497	CGGAAAGG GGCTAGCTACAACGA CAAGGGAA	32879
1960	9070	CUCUCCGG G UUUUUUCU	12498	AGAAAAAA GGCTAGCTACAACGA CCGGAGAG	32880
1985	9045	CCCAUCAU G UUGUAAAU	12499	ATTTACAA GGCTAGCTACAACGA ATGATGGG	32881
1988	9042	AUCAUGUU G UAAAUGCA	12500	TGCATTTA GGCTAGCTACAACGA AACATGAT	32882
1994	9036	UUGUAAAU G CAAGUGUG	12501	CACACTTG GGCTAGCTACAACGA ATTTACAA	32883
1998	9032	AAAUGCAA G UGUGACAU	12502	ATGTCACA GGCTAGCTACAACGA TTGCATTT	32884
2000	9030	AUGCAAGU G UGACAUUC	12503	GAATGTCA GGCTAGCTACAACGA ACTTGTCAT	32885
2014	9016	UUCCCCC G CAGAUGUG	12504	CACATCTG GGCTAGCTACAACGA GGGGGGAA	32886
2020	9010	CCGCAGAU G UGCCUCGC	12505	GCGAGGCA GGCTAGCTACAACGA ATCTGCGG	32887
2022	9008	GCAGAUUU G CCUCGCGC	12506	GCGCGAGG GGCTAGCTACAACGA ACATCTGC	32888
2027	9003	UGUGCCUC G CGCUCUC	12507	GAGGAGCG GGCTAGCTACAACGA GAGGCACA	32889
2029	9001	UGCCUCGC G CUCCUCAU	12508	ATGAGGAG GGCTAGCTACAACGA GCGAGGCA	32890
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAG GGCTAGCTACAACGA AGTTGAAG	32891
2079	8951	CUUCUCUG G CGCUCUC	12510	GAGGAGCG GGCTAGCTACAACGA CAGAGAAG	32892
2081	8949	UCUCUGGC G CUCCUCCA	12511	TGGAGGAG GGCTAGCTACAACGA GCCAGAGA	32893
2098	8932	UUGAUUCU G CUCUCAA	12512	TTGAAGAG GGCTAGCTACAACGA AGAATCAA	32894
2112	8918	CAAACAUG G CACCCAAA	12513	TTTGGGTG GGCTAGCTACAACGA CATGTTTG	32895
2121	8909	CACCCAAA G CUGCAUUG	12514	CAATGCAG GGCTAGCTACAACGA TTTGGGTG	32896
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAATG GGCTAGCTACAACGA AGCTTTGG	32897
2129	8901	GCUGCAUU G CUGUUGAC	12516	GTCAACAG GGCTAGCTACAACGA AATGCAGC	32898
2132	8898	GCAUUGCU G UUGACCUU	12517	AAGGTCAA GGCTAGCTACAACGA AGCAATGC	32899
2162	8868	UCUCGAGA G CACAUCU	12518	AGAATGTG GGCTAGCTACAACGA TCTCGAGA	32900
2176	8854	UCUGGGAC G UUUUUCUC	12519	GAGAAAAA GGCTAGCTACAACGA GTCCCAGA	32901
2187	8843	UUUCUCUG G CCAAAAAC	12520	GTTTTTGG GGCTAGCTACAACGA CAGAGAAA	32902
2196	8834	CCAAAAC G CCCACAAC	12521	GTTGTGGG GGCTAGCTACAACGA GTTTTTGG	32903
2207	8823	CACAACCA G UUGGUGGU	12522	ACCACCAA GGCTAGCTACAACGA TGGTTGTG	32904
2211	8819	ACCAGUUG G UGGUCUCA	12523	TGAGACCA GGCTAGCTACAACGA CAACTGGT	32905
2214	8816	AGUUGGUG G UCUCAUUG	12524	CAATGAGA GGCTAGCTACAACGA CACCAACT	32906
2224	8806	CUCAUUGA G CACGUACU	12525	AGTACGTG GGCTAGCTACAACGA TCAATGAG	32907
2228	8802	UUGAGCAC G UACUUCAC	12526	GTGAAGTA GGCTAGCTACAACGA GTGCTCAA	32908
2245	8785	UCCUUCUG G CGGUUCAG	12527	CTGAACCG GGCTAGCTACAACGA CAGAAGGA	32909
2248	8782	UUCUGGCG G UUCAGGAG	12528	CTCCTGAA GGCTAGCTACAACGA GCCCAGAA	32910
2256	8774	GUUCAGGA G CUUUCGUG	12529	CACGAAAG GGCTAGCTACAACGA TCCTGAAC	32911
2262	8768	GAGCUUUC G UGUCCACC	12530	GGTGGACA GGCTAGCTACAACGA GAAAGCTC	32912
2264	8766	GCUUUCGU G UCCACCUU	12531	AAGGTGGA GGCTAGCTACAACGA ACGAAAGC	32913
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG GGCTAGCTACAACGA GAGTGTTC	32914
2290	8740	CACUCGCU G CUGCCCAG	12533	TCGGGCAG GGCTAGCTACAACGA AGCGAGTG	32915
2293	8737	UCGUCGCU G CCCGAAGG	12534	CCTTCGGG GGCTAGCTACAACGA AGCAGCGA	32916
2304	8726	CGAAGGGA G UAGUGUCA	12535	TGACACTA GGCTAGCTACAACGA TCCCTTCG	32917
2307	8723	AGGGAGUA G UGUCAGUC	12536	GACTGACA GGCTAGCTACAACGA TACTCCCT	32918
2309	8721	GGAGUAGU G UCAGUCAU	12537	ATGACTGA GGCTAGCTACAACGA ACTACTCC	32919
2313	8717	UAGUGUCA G UCAUGGCC	12538	GGCCATGA GGCTAGCTACAACGA TGACACTA	32920
2319	8711	CAGUCAUG G CCAUGGUG	12539	CACCATGG GGCTAGCTACAACGA CATGACTG	32921
2325	8705	UGGCCAUG G UGGUAAAC	12540	TGTTACCA GGCTAGCTACAACGA CATGGCCA	32922
2328	8702	CCAUGGUG G UAACAUUC	12541	GAATGTTA GGCTAGCTACAACGA CACCATGG	32923
2337	8693	UAACAUUC G UGAUGGUG	12542	CACCATCA GGCTAGCTACAACGA GAATGTTA	32924
2343	8687	UCGUGAUG G UGUCCCAU	12543	ATGGGACA GGCTAGCTACAACGA CATCACGA	32925
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCATGGGA GGCTAGCTACAACGA ACCATCAC	32926
2353	8677	GUCCCAUG G UUUUGAGA	12545	TCTCAAAA GGCTAGCTACAACGA CATGGGAC	32927
2365	8665	UGAGAGGA G CCUGACCA	12546	TGGTCAGG GGCTAGCTACAACGA TCCTCTCA	32928
2386	8644	AUUGACCA G CGAACUGG	12547	CCAGTTCG GGCTAGCTACAACGA TGGTCAAT	32929
2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCTCCG GGCTAGCTACAACGA CAGTTGCG	32930
2399	8631	CUGGCGGA G CCUGUGGG	12549	CCCACAGG GGCTAGCTACAACGA TCCGCCAG	32931
2403	8627	CGGAGCCU G UGGGCUUC	12550	GAAGCCCA GGCTAGCTACAACGA AGGCTCCG	32932
2407	8623	GCCUGUGG G CUUCACAU	12551	ATGTGAAG GGCTAGCTACAACGA CCACAGGC	32933
2423	8607	UCAUAACU G CCGUGAUA	12552	TATCACGG GGCTAGCTACAACGA AGTTATGA	32934
2426	8604	UAACUGCC G UGAUAGUU	12553	AACTATCA GGCTAGCTACAACGA GGCAGTTA	32935
2432	8598	CCGUGAUA G UUCCAGGU	12554	ACCTGGAA GGCTAGCTACAACGA TATCACGG	32936
2439	8591	AGUUCCAG G UUCUAUUA	12555	ATATAGAA GGCTAGCTACAACGA CTGGAAC	32937
2450	8580	CUAUAUGG G UGGUUCUC	12556	GAGAACCA GGCTAGCTACAACGA CCATATAG	32938
2453	8577	UAUGGGUG G UUCUCAUC	12557	GATGAGAA GGCTAGCTACAACGA CACCCATA	32939
2462	8568	UUCUCAUC G UGGUGCCA	12558	TGGCACCA GGCTAGCTACAACGA GATGAGAA	32940

2465	8565	UCAUCGUG G UGCCACGU	12559	ACGTGGCA GGCTAGCTACAACGA CACGATGA	32941
2467	8563	AUCGUGGU G CCACGUCG	12560	CGACGTGG GGCTAGCTACAACGA ACCACGAT	32942
2472	8558	GGUGCCAC G UCGAACUG	12561	CAGTTCGA GGCTAGCTACAACGA GTGGCACC	32943
2480	8550	GUCGAACU G UACUCACG	12562	CGTGAGTA GGCTAGCTACAACGA AGTTCGAC	32944
2488	8542	GUACUCAC G CCUGAGUC	12563	GACTCAGG GGCTAGCTACAACGA GTGAGTAC	32945
2494	8536	ACGCCUGA G UCGUCAA	12564	TTGAACGA GGCTAGCTACAACGA TCAGGCGT	32946
2497	8533	CCUGAGUC G UUCAUCC	12565	GGATTGAA GGCTAGCTACAACGA GACTCAGG	32947
2507	8523	UCAAUCCU G UUCUUGAU	12566	ATCAAGAA GGCTAGCTACAACGA AGGATTGA	32948
2523	8507	UUUUAUCG G UGUCUGAG	12567	CTCAGACA GGCTAGCTACAACGA CAGTAAAA	32949
2525	8505	UUACUGGU G UCUGAGUU	12568	AACTCAGA GGCTAGCTACAACGA ACCAGTAA	32950
2531	8499	GUGUCUGA G UUGAGCAG	12569	CTGCTCAA GGCTAGCTACAACGA TCAGACAC	32951
2536	8494	UGAGUUGA G CAGGGGUU	12570	AACCCCTG GGCTAGCTACAACGA TCAACTCA	32952
2542	8488	GAGCAGGG G UUUUCCCA	12571	TGGGAAAA GGCTAGCTACAACGA CCCTGCTC	32953
2553	8477	UUCCACAC G CCUGGUU	12572	AACCAGGG GGCTAGCTACAACGA GGTGGGAA	32954
2559	8471	CCGCCCUG G UUCCACUU	12573	AAGTGGAA GGCTAGCTACAACGA CAGGGCGG	32955
2573	8457	CUUCCCAA G UUUACAUC	12574	GATGTAAA GGCTAGCTACAACGA TTGGGAAG	32956
2588	8442	UCUUCCUC G UAUUGGGG	12575	CCCCAATA GGCTAGCTACAACGA GAGGAAGA	32957
2596	8434	GUAUUGGG G UCCCUUCC	12576	GGAAGGGA GGCTAGCTACAACGA CCAATAC	32958
2607	8423	CCUUCCAG G UCCUUUUU	12577	AAAAGGGA GGCTAGCTACAACGA CTGGAAGG	32959
2632	8398	UCCUAGGA G CACCUGGC	12578	GCCAGGTG GGCTAGCTACAACGA TCCTAGGA	32960
2639	8391	AGCACCUG G CUGGUCAU	12579	ATGACCAG GGCTAGCTACAACGA CAGGTGCT	32961
2643	8387	CCUGGCUG G UCAUAUUC	12580	GAAATATGA GGCTAGCTACAACGA CAGCCAGG	32962
2659	8371	CACUGAAU G UACCACAU	12581	ATGTGGTA GGCTAGCTACAACGA ATTCAGTG	32963
2669	8361	ACCACAUU G CCUGAAGC	12582	GCTTCAGG GGCTAGCTACAACGA AATGTGGT	32964
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGTCGAG GGCTAGCTACAACGA TTCAGGCA	32965
2699	8331	UACAUCUC G UGCGUGGA	12584	TCCACGCA GGCTAGCTACAACGA GAGATGTA	32966
2701	8329	CAUCUCGU G CGUGGAAU	12585	ATTCCACG GGCTAGCTACAACGA ACGAGATG	32967
2703	8327	UCUCGUGC G UGGAAUUC	12586	GAATTCCA GGCTAGCTACAACGA GCACGAGA	32968
2713	8317	GGAAUUCC G UGAGAGUG	12587	CACTCTCA GGCTAGCTACAACGA GGAATTCC	32969
2719	8311	CCGUGAGA G UGGGUUUC	12588	GAAACCCA GGCTAGCTACAACGA TCTCACGG	32970
2723	8307	GAGAGUGG G UUUUGAC	12589	GTCAGAAA GGCTAGCTACAACGA CCACTCTC	32971
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2750	8280	CCAUAACG G CGUUGGAG	12591	CTCCAACG GGCTAGCTACAACGA CGGTATGG	32973
2752	8278	AUACCGGC G UUGGAGCA	12592	TGCTCCAA GGCTAGCTACAACGA GCCGGTAT	32974
2758	8272	GCGUUGGA G CAGCUCCA	12593	TGGAGCTG GGCTAGCTACAACGA TCCAACGC	32975
2761	8269	UUGGAGCA G CUCCAUCU	12594	AGATGGAG GGCTAGCTACAACGA TGCTCCAA	32976
2785	8245	GACUUUCG G CAUGUAGG	12595	CCTACATG GGCTAGCTACAACGA CGAAAGTC	32977
2789	8241	UUCGGCAU G UAGGGGCA	12596	TGCCCTTA GGCTAGCTACAACGA ATGCCGAA	32978
2795	8235	AUGUAGGG G CAGAGCAC	12597	GTGCTCTG GGCTAGCTACAACGA CCTACAT	32979
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2810	8220	ACCUUCAC G CAAAUUC	12599	GAATTTTG GGCTAGCTACAACGA GTGAAGGT	32981
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2833	8197	CCCUCGGU G CAGCCAGU	12602	ACTGGCTG GGCTAGCTACAACGA ACCGAGGG	32984
2836	8194	UCGGUGCA G CCAGUCCU	12603	AGGACTGG GGCTAGCTACAACGA TGCACCGA	32985
2840	8190	UGCAGCCA G UCCUCAAC	12604	GTTGAGGA GGCTAGCTACAACGA TGGCTGCA	32986
2868	8162	CCGAAUC G UCCUAUGC	12605	GCATAGGA GGCTAGCTACAACGA GATTCGGG	32987
2875	8155	CGUCCUAU G CUCUCAA	12606	TTGAAGAG GGCTAGCTACAACGA ATAGGACG	32988
2889	8141	CAACCUCA G CACTUGAC	12607	GTCAAGTG GGCTAGCTACAACGA TGAGGTG	32989
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2925	8105	AAAGGAGG G UGUCACAA	12609	TTGTGACA GGCTAGCTACAACGA CCTCCTTT	32991
2927	8103	AGGAGGGU G UCACAACA	12610	TGTTGTGA GGCTAGCTACAACGA ACCCTCCT	32992
2944	8086	CUCAGAAG G UCUGUAGA	12611	TCTACAGA GGCTAGCTACAACGA CTTCTGAG	32993
2948	8082	GAAGGUCU G UGAAACAC	12612	GTGTTCTA GGCTAGCTACAACGA AGACCTTC	32994
2976	8054	UCUUAUG G UGACAAUG	12613	CATTGTCA GGCTAGCTACAACGA CATGAAGA	32995
2984	8046	GUGACAAU G UUCAUCC	12614	GGATGGAA GGCTAGCTACAACGA ATTGTCAC	32996
3001	8029	AUAACUUU G CACUAGUU	12615	AACTAGTG GGCTAGCTACAACGA AAAGTTAT	32997
3007	8023	UUGCACUA G UUGGGGCU	12616	AGCCCCAA GGCTAGCTACAACGA TAGTGCAA	32998
3013	8017	UAGUUGGG G CUCUUCAU	12617	ATGAAGAG GGCTAGCTACAACGA CCAACTA	32999
3022	8008	CUCUUCAU G UCCGGGAC	12618	GTCCCGGA GGCTAGCTACAACGA ATGAAGAG	33000
3032	7998	CCGGGACC G CCCUUUGU	12619	ACAAAGGG GGCTAGCTACAACGA GGTCCCGG	33001
3039	7991	CGCCUUUU G UGUACCCU	12620	AGGGTACA GGCTAGCTACAACGA AAAGGGCG	33002
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3075	7955	UUUGGUU G CCAUAUAG	12623	CTATATGG GGCTAGCTACAACGA AACCCAAA	33005
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3095	7935	CACCAACC G CCUCUUC	12625	GGAAGAGG GGCTAGCTACAACGA GGTGGTG	33007
3113	7917	CAUCCAAG G UCAAUCAC	12626	GTGATTGA GGCTAGCTACAACGA CTTGGATG	33008
3133	7897	UCCGACCG G UUCGAGAA	12627	TTCTCGAA GGCTAGCTACAACGA CGGTCGGA	33009
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3157	7873	UUCGACCA G CCAUCUCA	12629	TGAGATGG GGCTAGCTACAACGA TGGTCGAA	33011
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3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GGCTAGCTACAACGA AATGTCAC	33018
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3224	7806	UUCUGGC G UGUUUUGC	12638	GCAAAACA GGCTAGCTACAACGA GCCAGGAA	33020
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3258	7772	CGAUGAUG G CCUCUUUG	12643	CAAAGAGG GGCTAGCTACAACGA TCATCATG	33025
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3269	7761	UCUUUGCG G UACCUAGU	12645	ACTAGGTA GGCTAGCTACAACGA CGCAAAGA	33027
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3299	7731	GUCAUCUG G UUGAGUCU	12648	AGACTCAA GGCTAGCTACAACGA CAGATGAC	33030
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3583	7447	CAAGAUA G CAUGAUCU	12683	AGATCATG GGCTAGCTACAACGA TGATCTTG	33065
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3819	7211	AUCCGGCU G CUAGCAGG	12723	CCTGCTAG GGCTAGCTACAACGA AGCCGGAT	33105
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3865	7165	GAAGCCUC G CGCGAGUG	12727	CACTCGCG GGCTAGCTACAACGA GAGGCTTC	33109
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3871	7159	UCGCGCGA G UGUGAAUA	12729	TATTCACT GGCTAGCTACAACGA TCGCGCGA	33111
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3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGTGCA GGCTAGCTACAACGA TATTCACT	33113
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGTG GGCTAGCTACAACGA ACTATTCA	33114
3888	7142	GUGCACUU G CCUGAACG	12733	CGTTCAGG GGCTAGCTACAACGA AAGTGCAC	33115
3896	7134	GCCUGAAC G UUUAUUGA	12734	TCAATAAA GGCTAGCTACAACGA GTTCAGGC	33116
3906	7124	UUAUUGAG G UCAAUGAG	12735	CTCATTGA GGCTAGCTACAACGA CTCATAAA	33117
3915	7115	UCAAUGAG G UGUUGAUG	12736	CATCAACA GGCTAGCTACAACGA CTCATTGA	33118
3917	7113	AAUGAGGU G UUGAUGUA	12737	TACATCAA GGCTAGCTACAACGA ACCTCATT	33119
3923	7107	GUGUUGAU G UAAUCUGA	12738	TCAGATTA GGCTAGCTACAACGA ATCAACAC	33120
3933	7097	AAUCUGAC G UGAUCAA	12739	TTTGATCA GGCTAGCTACAACGA GTCAGATT	33121
3943	7087	GAUCAAAU G CUUUGACA	12740	TGCTAAAG GGCTAGCTACAACGA ATTGATC	33122
3949	7081	AUGCUUUA G CAGUGGAG	12741	CTCCACTG GGCTAGCTACAACGA TAAAGCAT	33123
3952	7078	CUUUGACA G UGAGUGA	12742	TCACTCCA GGCTAGCTACAACGA TGTAAAG	33124
3957	7073	GCAGUGGA G UGAGGACC	12743	GTCTCTCA GGCTAGCTACAACGA TCCCTGTC	33125
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GGCTAGCTACAACGA GGTCTCTA	33126
3969	7061	GGACCGCU G UUGUCACA	12745	TGTGACAA GGCTAGCTACAACGA AGCGGTCC	33127
3972	7058	CCGCUUGU G UCACAGCG	12746	CGCTGTGA GGCTAGCTACAACGA AACAGCGG	33128
3978	7052	UUGUCACA G CGUACAGU	12747	ACTGTACG GGCTAGCTACAACGA TGTGACAA	33129

3980	7050	GUCACAGC G UACAGUGA	12748	TCACTGTA GGCTAGCTACAACGA GCTGTGAC	33130
3985	7045	AGCGUACA G UGACCAGG	12749	CCTGGTCA GGCTAGCTACAACGA TGTACGCT	33131
3993	7037	GUGACCAG G CUGUUGCC	12750	GGCAACAG GGCTAGCTACAACGA CTGGTCAC	33132
3996	7034	ACCAGGCU G UUGCCGGC	12751	GCGGGCAA GGCTAGCTACAACGA AGCCTGGT	33133
3999	7031	AGGCUGUU G CCGGCCUC	12752	GAGGCCGG GGCTAGCTACAACGA AACAGCCT	33134
4003	7027	UGUUGCCG G CCUCAAGU	12753	ACTTGAGG GGCTAGCTACAACGA CGGCAACA	33135
4010	7020	GGCCUCAA G UCCAAAAG	12754	CTTTTGGA GGCTAGCTACAACGA TTGAGGCC	33136
4031	6999	UCUCCCAU G CUGAAAUU	12755	AATTTTCAG GGCTAGCTACAACGA ATGGGAGA	33137
4060	6970	AAUUCUUU G CCCAAACA	12756	TGTTTGGG GGCTAGCTACAACGA AAAGAATT	33138
4073	6957	AACAAACU G CUUAUGUC	12757	GACATAAG GGCTAGCTACAACGA AGTTTGTT	33139
4079	6951	CUGCUUUAU G UCACUCUU	12758	AAGAGTGA GGCTAGCTACAACGA ATAAGCAG	33140
4089	6941	CACUCUUG G UCUAUCU	12759	AGATAAGA GGCTAGCTACAACGA CAAGAGTG	33141
4099	6931	CUUAUCUA G CCAACCCA	12760	TGGGTTGG GGCTAGCTACAACGA TAGATAAG	33142
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4116	6914	UCUCGUUG G CUGCCACU	12762	AGTGGCAG GGCTAGCTACAACGA CAACGAGA	33144
4119	6911	CGUUGGCU G CCACUGCG	12763	CGCAGTGG GGCTAGCTACAACGA AGCCAACG	33145
4125	6905	CUGCCACU G CGCUCACA	12764	TGTGAGCG GGCTAGCTACAACGA AGTGGCAG	33146
4127	6903	GCCACUGC G CUCACAAG	12765	CTTGTGAG GGCTAGCTACAACGA GCAGTGGC	33147
4137	6893	UCACAAGG G UCAUGACA	12766	TGTCATGA GGCTAGCTACAACGA CCTTGTGA	33148
4161	6869	GGAACACG G CUAGCUGG	12767	CCAGCTAG GGCTAGCTACAACGA CGTGTTC	33149
4165	6865	CACGGCUA G CUGGUUGU	12768	ACAACCAG GGCTAGCTACAACGA TAGCCGTG	33150
4169	6861	GCUAGCUG G UUGUCUGU	12769	ACAGACAA GGCTAGCTACAACGA CAGCTAGC	33151
4172	6858	AGCUGGUU G UCUGUCUG	12770	CAGACAGA GGCTAGCTACAACGA AACCAGCT	33152
4176	6854	GGUUGUCU G UCUGCGAA	12771	TTCGCAGA GGCTAGCTACAACGA AGACAACC	33153
4180	6850	GUCUGUCU G CGAACGUU	12772	AACGTTTCG GGCTAGCTACAACGA AGACAGAC	33154
4186	6844	CUGCGAAC G UUGCUUCU	12773	AGAAGCAA GGCTAGCTACAACGA GTTCGCAG	33155
4189	6841	CGAACGUU G CUUCUCUG	12774	CAGAGAAG GGCTAGCTACAACGA AACGTTTCG	33156
4198	6832	CUUCUCUG G CUCAGGAA	12775	TTCCTGAG GGCTAGCTACAACGA CAGAGAAG	33157
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4237	6793	GGAGAGCA G CAACAUUC	12778	GAATGTTG GGCTAGCTACAACGA TGCTCTCC	33160
4248	6782	ACAUUCCG G CGAUUCU	12779	GAAGATCG GGCTAGCTACAACGA CGGAATGT	33161
4257	6773	CGAUUCU G UUCUGGGA	12780	TCCAGGAA GGCTAGCTACAACGA GAAGATCG	33162
4272	6758	GAACUUCA G CCAUCCAA	12781	TTGGATGG GGCTAGCTACAACGA TGAAGTTC	33163
4290	6740	AGAAAAAG G UCGCGACU	12782	AGTCGCGA GGCTAGCTACAACGA CTTTTTCT	33164
4293	6737	AAAAGGUC G CGACUCCC	12783	GGGAGTCG GGCTAGCTACAACGA GACCTTTT	33165
4308	6722	CCAAGACA G CGCCUCCC	12784	GGGAGGCG GGCTAGCTACAACGA TGTCTTGG	33166
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4334	6696	UUUCCAAU G CCCUCCG	12786	CGGAAGGG GGCTAGCTACAACGA ATTGGAAA	33168
4342	6688	GCCCUUCC G CUGCAUGA	12787	TCATGCAG GGCTAGCTACAACGA GGAAGGGC	33169
4345	6685	CUUCCGCU G CAUGAGGA	12788	TCCTCATG GGCTAGCTACAACGA AGCGGAAG	33170
4371	6659	CUCCAUUG G UCAUCACA	12789	TGTGATGA GGCTAGCTACAACGA CATGGGAG	33171
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4398	6632	CAAUCAAG G CAUUGUC	12791	GACAATTG GGCTAGCTACAACGA CTTGATTG	33173
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4420	6610	AGCAUCUG G CAGUCCU	12794	AGGAACCTG GGCTAGCTACAACGA CAGATGCT	33176
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4434	6596	CCUCCAGG G CCAUUCUG	12796	CAGAATGG GGCTAGCTACAACGA CCTGAGG	33178
4442	6588	GCCAUCU G UGAGCUCU	12797	AGAGCTCA GGCTAGCTACAACGA AGAATGGC	33179
4446	6584	UUCUGUGA G CUCUCCU	12798	AGGAAGAG GGCTAGCTACAACGA TCACAGAA	33180
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4467	6563	UCUCUGCA G UGGCCACA	12800	TGTGGCCA GGCTAGCTACAACGA TGCAGAGA	33182
4470	6560	CUGCAGUG G CCACAACG	12801	CGTTGTGG GGCTAGCTACAACGA CACTGCAG	33183
4478	6552	GCCACAAC G UACAUUGU	12802	ACCATGTA GGCTAGCTACAACGA GTTGTGGC	33184
4485	6545	CGUACAUG G UGUCAAGU	12803	ACTTGACA GGCTAGCTACAACGA CATGTACG	33185
4487	6543	UACAUGGU G UCAAGUGC	12804	GCACTTGA GGCTAGCTACAACGA ACCATGTA	33186
4492	6538	GGUGUCAA G UGCUUCCC	12805	GGGAAGCA GGCTAGCTACAACGA TTGACACC	33187
4494	6536	UGUCAAGU G CUUCCCAU	12806	ATGGGAAG GGCTAGCTACAACGA ACTTGACA	33188
4503	6527	CUUCCCAU G UCUUCCC	12807	GGGGAAGA GGCTAGCTACAACGA ATGGGAAG	33189
4517	6513	CCCAUGAA G UGCUCAGG	12808	CCTGAGCA GGCTAGCTACAACGA TTCATGGG	33190
4519	6511	CAUGAAGU G CUCAGGCA	12809	TGCCTGAG GGCTAGCTACAACGA ACTTCATG	33191
4525	6505	GUGCUCAG G CAUCUUUC	12810	GAAAGATG GGCTAGCTACAACGA CTGAGCAC	33192

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4575	6455	UUCCCGAG G CGAAGUCC	12813	GGACTTCG GGCTAGCTACAACGA CTCGGGAA	33195
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4590	6440	CCUUGAAC G CCUUUAGU	12815	ACTAAAGG GGCTAGCTACAACGA GTTCAAGG	33197
4597	6433	CGCCUUUA G UGCCUGGU	12816	ACCAGGCA GGCTAGCTACAACGA TAAAGGCG	33198
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4739	6291	CACCUCGG G UCGUGGUA	12834	TACCACGA GGCTAGCTACAACGA CGGAGGTG	33216
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4764	6266	CAGCCGCU G CAACCUUG	12839	CAAGGTTG GGCTAGCTACAACGA AGCGGCTG	33221
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4789	6241	CCAAACUG G CAGAUCUG	12843	CAGATCTG GGCTAGCTACAACGA CAGTTTGG	33225
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4942	6088	CAUGAUUC G UGCCUCAG	12862	CTGAGGCA GGCTAGCTACAACGA GAATCATG	33244
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5414	5616	GUCUGUAA G UCGGAAAU	12916	ATTTCGA GGCTAGCTACAACGA TTACGAC	33298
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5550	5480	CUGGGUCG G UGAAUUGA	12935	TCATTTCA GGCTAGCTACAACGA CGACCCAG	33317
5559	5471	UGAAUUGA G CCUCAUCC	12936	GGATGAGG GGCTAGCTACAACGA TCATTTC	33318

5579	5451	ACGAACAG G UUGUAGUU	12937	AACTACAA GGCTAGCTACAACGA CTGTTCCGT	33319
5582	5448	AACAGGUU G UAGUUCGG	12938	CCGAACAA GGCTAGCTACAACGA AACCTGTT	33320
5585	5445	AGGUUGUA G UUCGGCAC	12939	GTGCCGAA GGCTAGCTACAACGA TACAACCT	33321
5590	5440	GUAGUUCG G CACCCUGU	12940	ACAGGGTG GGCTAGCTACAACGA CGAAGTAC	33322
5597	5433	GGCACCCU G UGAGGAGA	12941	TCTCCTCA GGCTAGCTACAACGA AGGGTGCC	33323
5611	5419	AGACAUCA G CCUGUGGG	12942	CCCACAGG GGCTAGCTACAACGA TGATGTCT	33324
5615	5415	AUCAGCCU G UGGGUGAG	12943	CTCACCCA GGCTAGCTACAACGA AGGCTGAT	33325
5619	5411	GCCUGUGG G UGAGGGUA	12944	TACCTCTA GGCTAGCTACAACGA CCACAGGC	33326
5625	5405	GGGUGAGG G UAGCAUGA	12945	TCATGCTA GGCTAGCTACAACGA CCTCACCC	33327
5628	5402	UGAGGGUA G CAUGACAC	12946	GTGTCATG GGCTAGCTACAACGA TACCCTCA	33328
5665	5365	UCCAUUAA G UUCUCUGG	12947	CCAGAGAA GGCTAGCTACAACGA ATAATGGA	33329
5674	5356	UUCUCUGG G CACUGCGG	12948	CCGCGAGT GGCTAGCTACAACGA CCAGAGAA	33330
5679	5351	UGGGCACT G CGGAUGC	12949	GACATCCG GGCTAGCTACAACGA AGTGCCCA	33331
5685	5345	CUGCGGAU G UCUGGUAC	12950	GTACCAGA GGCTAGCTACAACGA ATCCGCAG	33332
5690	5340	GAUGUCUG G UACCGGAU	12951	ATCCGGTA GGCTAGCTACAACGA CAGACATC	33333
5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACTG GGCTAGCTACAACGA CCATCCGG	33334
5704	5326	GAUGGGCA G UCCUCUCA	12953	TGAGAGGA GGCTAGCTACAACGA TGCCCATC	33335
5713	5317	UCCUCUCA G UGCUUCAG	12954	CTGAAGCA GGCTAGCTACAACGA TGAGAGGA	33336
5715	5315	CUCUCAGU G CUUCAGCC	12955	GGCTGAAG GGCTAGCTACAACGA ACTGAGAG	33337
5721	5309	GUGCUUCA G CCAUCUCA	12956	TGAGATGG GGCTAGCTACAACGA TGAAGCAC	33338
5730	5300	CCAUCUCA G CAGCCACA	12957	TGTGGCTG GGCTAGCTACAACGA TGAGATGG	33339
5733	5297	UCUCAGCA G CCACAACC	12958	GGTTGTGG GGCTAGCTACAACGA TGCTGAGA	33340
5745	5285	CAACCCUG G UUGGUGCU	12959	AGCACCAA GGCTAGCTACAACGA CAGGGTTG	33341
5749	5281	CCUGGUUG G UGCUAGCA	12960	TGCTAGCA GGCTAGCTACAACGA CAACCAGG	33342
5751	5279	UGGUUGGU G CUAGCACG	12961	CGTGCTAG GGCTAGCTACAACGA ACCAACCA	33343
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGTG GGCTAGCTACAACGA TAGCACCA	33344
5760	5270	CUAGCACG G CUGUUCUC	12963	GAGAACAG GGCTAGCTACAACGA CGTGCTAG	33345
5763	5267	GCACGGCU G UUCUCAGU	12964	ACTGAGAA GGCTAGCTACAACGA AGCCGTGC	33346
5770	5260	UGUUCUCA G UCUCUCUG	12965	ACAGAAGA GGCTAGCTACAACGA TGAGAACA	33347
5777	5253	AGUCUUCU G UUUUUGG	12966	GCCATAAA GGCTAGCTACAACGA AGAAGACT	33348
5784	5246	UGUUUAUG G CCUCUUG	12967	CAAGAGGG GGCTAGCTACAACGA GATAAACA	33349
5800	5230	GAUGAUCU G UGCAGAA	12968	TTCTGCCA GGCTAGCTACAACGA AGATATC	33350
5803	5227	GAUCUGUG G CAGAAUCC	12969	GGATTCTG GGCTAGCTACAACGA CACAGATC	33351
5817	5213	UCCUCCUU G UUUUACCG	12970	CGGTAAAA GGCTAGCTACAACGA AAGGAGGA	33352
5826	5204	UUUUACCG G CGCCGGGA	12971	TCCC GGCG GGCTAGCTACAACGA CGGTAAAA	33353
5828	5202	UUACCGGC G CCGGGAUG	12972	CATCCCGG GGCTAGCTACAACGA GCCGGTAA	33354
5845	5185	GAGAUCCA G UACAGUGA	12973	TCACTGTA GGCTAGCTACAACGA TGATCTC	33355
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGATCA GGCTAGCTACAACGA TGTACTGG	33356
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAAA GGCTAGCTACAACGA AGATCACT	33357
5869	5161	UUUCCUCA G CAUCUCAG	12976	CTGAGATG GGCTAGCTACAACGA TGAGGAAA	33358
5878	5152	CAUCUCAG G UUCGAAUC	12977	GATTGCAA GGCTAGCTACAACGA CTGAGATG	33359
5889	5141	CGAAUCCG G CUGGGAUU	12978	AATCCCAG GGCTAGCTACAACGA CGGATTCG	33360
5899	5131	UGGGAUUG G CUCAUCCA	12979	TGGATGAG GGCTAGCTACAACGA CAATCCCA	33361
5920	5110	UUCACCCU G CACUAUCG	12980	CGATAGTG GGCTAGCTACAACGA AGGGTGAA	33362
5928	5102	GCACUAUC G CGCUUAUG	12981	CATAAGCG GGCTAGCTACAACGA GATAGTGC	33363
5930	5100	ACUAUCGC G CUUAUGUA	12982	TACATAAG GGCTAGCTACAACGA GCGATAGT	33364
5936	5094	GCGCUUAA G UAUGAGCC	12983	GGCTCATA GGCTAGCTACAACGA ATAAGCGC	33365
5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACGG GGCTAGCTACAACGA TCATACAT	33366
5945	5085	UAUGAGCC G UUGGGCAU	12985	ATGCCCAA GGCTAGCTACAACGA GGCTCATA	33367
5950	5080	GCCGUUGG G CAUUAUGA	12986	TCATAATG GGCTAGCTACAACGA CCAACGGC	33368
5966	5064	ACUCCAUI G CCAUAAAG	12987	CTTTATGG GGCTAGCTACAACGA AATGGAGT	33369
5974	5056	GCCAUAAA G CCCAUCA	12988	TGATTGGG GGCTAGCTACAACGA TTTATGGC	33370
5990	5040	ACAUCACC G UUUUUGUC	12989	GACAAAAA GGCTAGCTACAACGA GGTGATGT	33371
5996	5034	CCGUUUUU G UCCACUAA	12990	ATAGTGGA GGCTAGCTACAACGA AAAAACGG	33372
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6011	5019	AUUGGUGA G CCUGAUGU	12992	ACATCAGG GGCTAGCTACAACGA TCACCAAT	33374
6018	5012	AGCCUGAU G UCCAGUG	12993	CACCTGGA GGCTAGCTACAACGA ATCAGGCT	33375
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6032	4998	GUGGGGAA G UCCAAAGU	12995	ACTTTGGA GGCTAGCTACAACGA TTCCCCAC	33377
6039	4991	AGUCCAAA G UCACGGCC	12996	GGCCGTGA GGCTAGCTACAACGA TTTGGACT	33378
6045	4985	AAGUCACG G CCCGAUU	12997	AATCGGGG GGCTAGCTACAACGA CGTGACTT	33379
6064	4966	UCCUUCAG G UGUUUUGA	12998	TCAAACAA GGCTAGCTACAACGA CTGAAGGA	33380
6066	4964	CUUCAGGU G UUUUGAAC	12999	GTTCAAAA GGCTAGCTACAACGA ACCTGAAG	33381

6082	4948	CACCCUG G UUUCGUCU	13000	AGACGAAA GGCTAGCTACAACGA CAGGGGTG	33382
6087	4943	CUGGUUUC G UCUGGACG	13001	CGTCCAGA GGCTAGCTACAACGA GAAACCAG	33383
6095	4935	GUCUGGAC G UUCUUAAC	13002	GTTAAGAA GGCTAGCTACAACGA GTCCAGAC	33384
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA GGCTAGCTACAACGA GTTAAGAA	33385
6110	4920	ACGUUCUU G CCAGGUUC	13004	GAACCTGG GGCTAGCTACAACGA AAGAACGT	33386
6115	4915	CUUGCCAG G UUCCACCA	13005	TGGTGGAA GGCTAGCTACAACGA CTGGCAAG	33387
6133	4897	AAUCAUCU G CACCUCAU	13006	ATGAGGTG GGCTAGCTACAACGA AGATGATT	33388
6145	4885	CUCAUCCU G CCCGUUCC	13007	GGAACGGG GGCTAGCTACAACGA AGGATGAG	33389
6149	4881	UCCUGCCC G UUCCACUU	13008	AAGTGGAA GGCTAGCTACAACGA GGGCAGGA	33390
6158	4872	UUCCACUU G UGUGCAA	13009	TTGCAGCA GGCTAGCTACAACGA AAGTGGAA	33391
6160	4870	CCACUUGU G CUGCAAUU	13010	AATTGCAG GGCTAGCTACAACGA ACAAGTGG	33392
6163	4867	CUUGUGCU G CAUUUCC	13011	GGAAATTG GGCTAGCTACAACGA AGCACAAG	33393
6175	4855	UUUCCAGG G UCCUCCGU	13012	ACGGAGGA GGCTAGCTACAACGA CCTGGAAA	33394
6182	4848	GGUCCUCC G UAACAAAG	13013	CTTTGTTA GGCTAGCTACAACGA GGAGGACC	33395
6190	4840	GUAACAA G UCGAUCCU	13014	AGGATCGA GGCTAGCTACAACGA TTTGTTAC	33396
6209	4821	UUGACACU G CCCCAGUA	13015	TACTGGGG GGCTAGCTACAACGA AGTGTCAA	33397
6215	4815	CUGCCCCA G UAUGGGUC	13016	GACCCATA GGCTAGCTACAACGA TGGGGCAG	33398
6221	4809	CAGUAUGG G UCCAGGCG	13017	CGCCTGGA GGCTAGCTACAACGA CCATACTG	33399
6227	4803	GGGUCCAG G CGGCCUCC	13018	GAGGGCCG GGCTAGCTACAACGA CTGGACCC	33400
6230	4800	UCCAGGCG G CCCUCUCC	13019	GGAGAGGG GGCTAGCTACAACGA CGCCTGGA	33401
6239	4791	CCCUCUCC G CUCAUCAA	13020	TTGATGAG GGCTAGCTACAACGA GGAGAGGG	33402
6249	4781	UCAUCAA G CGGCUCCU	13021	AGGAGCCG GGCTAGCTACAACGA TTTGATGA	33403
6252	4778	UCAAGCG G CUCCUUUU	13022	AAAAGGAG GGCTAGCTACAACGA CGCTTTGA	33404
6261	4769	CUCCUUUU G UUGUAUGC	13023	GCATACAA GGCTAGCTACAACGA AAAAGGAG	33405
6264	4766	CUUUUGUU G UAUGCCAA	13024	TTGGCATA GGCTAGCTACAACGA AACAAAAG	33406
6268	4762	UGUUGUAU G CCAAAGGG	13025	CCCTTTGG GGCTAGCTACAACGA ATACAACA	33407
6276	4754	GCCAAAGG G UGUGGAAA	13026	TTTCCACA GGCTAGCTACAACGA CCTTTGGC	33408
6278	4752	CAAAGGGU G UGGAAAC	13027	GTTTTCCT GGCTAGCTACAACGA ACCCTTTG	33409
6302	4728	ACCAUCAC G CCCGCUCC	13028	GGAGCGGG GGCTAGCTACAACGA GTGATGGT	33410
6306	4724	UCACGCC G CUCCUGCU	13029	AGCAGGAG GGCTAGCTACAACGA GGGCGTGA	33411
6312	4718	CGCUCUCC G CUUGAUAA	13030	TTATCAAG GGCTAGCTACAACGA AGGAGCGG	33412
6323	4707	UGAUACU G CCGAGCAG	13031	CTGCTCGG GGCTAGCTACAACGA AGTTATCA	33413
6328	4702	ACUGCCGA G CAGCCAC	13032	GTGGGCTG GGCTAGCTACAACGA TCGGCAGT	33414
6331	4699	GCCGAGCA G CCCACGAG	13033	CTCGTGGG GGCTAGCTACAACGA TGCTCGGC	33415
6339	4691	GCCCACGA G UCAUGAUC	13034	GATCATGA GGCTAGCTACAACGA TCGTGGGC	33416
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6356	4674	CUGUAGAC G CCGUGGUU	13036	ACCACCGG GGCTAGCTACAACGA GTCTACAG	33418
6360	4670	AGACGCGG G UGGUCGUG	13037	CACGACCA GGCTAGCTACAACGA CGGCGTCT	33419
6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GGCTAGCTACAACGA CACCGGCG	33420
6366	4664	CGGUGGUC G UGUCCCC	13039	GGGGGACA GGCTAGCTACAACGA GACCACCG	33421
6368	4662	GUGGUCGU G UCCCCUUU	13040	AAGGGGGA GGCTAGCTACAACGA AGCACAC	33422
6380	4650	CCUUUUUU G UACUCCUU	13041	AAGGAGTA GGCTAGCTACAACGA AAAAGGGG	33423
6391	4639	CUCCUUUG G UGAGGGAG	13042	CTCCCTCA GGCTAGCTACAACGA CAAAGGAG	33424
6399	4631	GUGAGGGA G UGUCCAC	13043	GTGGGACA GGCTAGCTACAACGA TCCCTCAC	33425
6401	4629	GAGGGAGU G UCCCACAA	13044	TTGTGGGA GGCTAGCTACAACGA ACTCCCTC	33426
6413	4617	CACAACAC G CCUCCUCU	13045	AGAGGAGG GGCTAGCTACAACGA GTGTTGTG	33427
6426	4604	CUCUCUUU G UGUUUGG	13046	CCAATACA GGCTAGCTACAACGA AAAGAGAG	33428
6428	4602	CUCUUUGU G UAUUGGAG	13047	CTCCAATA GGCTAGCTACAACGA ACAAGAGAG	33429
6438	4592	AUUGGAGA G UUAUCCAA	13048	TTGGATAA GGCTAGCTACAACGA TCTCCAAT	33430
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6482	4548	CAGGGGGU G UACGCACU	13052	AGTGCCTA GGCTAGCTACAACGA ACCCCCTG	33434
6486	4544	GGGUGUAC G CACUAAUC	13053	GATTAGTG GGCTAGCTACAACGA GTACACCC	33435
6495	4535	CACUAAUC G CGAGACAG	13054	CTGTCTCG GGCTAGCTACAACGA GATTAGTG	33436
6514	4516	CAUUCUGA G CAUCCAUA	13055	TATGGATG GGCTAGCTACAACGA TCAGAATG	33437
6532	4498	CUUCCAAG G UGUCCUG	13056	CAGGAGCA GGCTAGCTACAACGA CTTGGAAG	33438
6534	4496	UCCAAGGU G CUCCUGGA	13057	TCCAGGAG GGCTAGCTACAACGA ACCTTGGA	33439
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6560	4470	AGCUGGAA G UUUCCAUC	13059	GATGGAAA GGCTAGCTACAACGA TTCCAGCT	33441
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6580	4450	AUCAAGCC G CACAUCAA	13061	TTGATGTG GGCTAGCTACAACGA GGCTTGAT	33443
6596	4434	ACUCUUUC G CUCGAGCC	13062	GGCTCGAG GGCTAGCTACAACGA GAAAGAGT	33444

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6606	4424	UCGAGCCU G UAAUUUCU	13064	AGAAATTA GGCTAGCTACAACGA AGGCTCGA	33446
6615	4415	UAAUUUCU G CAUCACUU	13065	AAGTGATG GGCTAGCTACAACGA AGAAATTA	33447
6635	4395	CAGGAAAU G UCCGCCGU	13066	ACGGCGGA GGCTAGCTACAACGA ATTTCTTG	33448
6639	4391	AAAUGUCC G CCGUUCUC	13067	GAGAACGG GGCTAGCTACAACGA GGACATT	33449
6642	4388	UGUCCGCC G UUCUCUCA	13068	TGAGAGAA GGCTAGCTACAACGA GGCGGACA	33450
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6690	4340	CGAAAGCA G CAAACAUG	13071	CATGTTTG GGCTAGCTACAACGA TGCTTTTG	33453
6700	4330	AAACAUGA G CCCCAGCA	13072	TGCGGGGG GGCTAGCTACAACGA TCATGTTT	33454
6705	4325	UGAGCCCC G CGAUAGUC	13073	GACTATCG GGCTAGCTACAACGA GGGGCTCA	33455
6711	4319	CCGCGAUA G UCAUUGGA	13074	TCCAATGA GGCTAGCTACAACGA TATCGCGG	33456
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6737	4293	GAGUCAAU G UCAAGCUC	13077	GAGCTTGA GGCTAGCTACAACGA ATTGACTC	33459
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6751	4279	CUCUGCCA G CCCUCCGA	13080	TCGGAGGG GGCTAGCTACAACGA TGGCAGAG	33462
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6776	4254	AACAUAUG G CCGACAGC	13082	GCTGTCCG GGCTAGCTACAACGA CTAATGTT	33464
6783	4247	GGCCGACA G CUGUCAUC	13083	GATGACAG GGCTAGCTACAACGA TGTCGGCC	33465
6786	4244	CGACAGCU G UCAUCACU	13084	AGTGATGA GGCTAGCTACAACGA AGCTGTGC	33466
6798	4232	UCACUUCA G UUGCGGGC	13085	GCCCGCAA GGCTAGCTACAACGA TGAAGTGA	33467
6801	4229	CUUCAGUU G CGGGCCAU	13086	ATGGCCCG GGCTAGCTACAACGA AGCTGAAG	33468
6805	4225	AGUUGCGG G CCAUCCGC	13087	GCGGATGG GGCTAGCTACAACGA CCGCAACT	33469
6812	4218	GGCCAUCG G CGUUUACG	13088	CGTAAACG GGCTAGCTACAACGA GGATGGCC	33470
6814	4216	CCAUCCGC G UUUACGGU	13089	ACCGTAAA GGCTAGCTACAACGA GCGGATGG	33471
6821	4209	CGUUUACG G UUGGGAUC	13090	GATCCCAA GGCTAGCTACAACGA CGTAAACG	33472
6834	4196	GAUCACAU G CAAUCAGU	13091	ACTGATTG GGCTAGCTACAACGA ATGTGATC	33473
6841	4189	UGCAAUCA G UCCAGCAG	13092	CTGCTGGA GGCTAGCTACAACGA TGATTGCA	33474
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCTTGCTG GGCTAGCTACAACGA TGGACTGA	33475
6849	4181	GUCCAGCA G CAAGGAUC	13094	GATCCTTG GGCTAGCTACAACGA TGCTGGAC	33476
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6871	4159	GUUGAAAA G UCCUGUUG	13096	CAACAGGA GGCTAGCTACAACGA TTTTCAAC	33478
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCTCAA GGCTAGCTACAACGA AGGACTTT	33479
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6888	4142	AGGCUAGA G CCAAGCAU	13099	ATGCTTGG GGCTAGCTACAACGA TCTAGCCT	33481
6893	4137	AGAGCCAA G CAUAGCAG	13100	CTGCTATG GGCTAGCTACAACGA TTGGCTCT	33482
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGTCTG GGCTAGCTACAACGA TATGCTTG	33483
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAAGGAG GGCTAGCTACAACGA AAGTCTGC	33484
6921	4109	UCUUUUUU G CAGCUGCA	13103	TGCAGCTG GGCTAGCTACAACGA AAAAAAGA	33485
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGTGCA G GGCTAGCTACAACGA TGCAAAAA	33486
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGTG GGCTAGCTACAACGA AGCTGCAA	33487
6950	4080	CUGAUCAA G CUGCCUUA	13106	ATAGGCAG GGCTAGCTACAACGA TTGATCAG	33488
6953	4077	AUCAAGCU G CCUAUUC	13107	GGAATAGG GGCTAGCTACAACGA AGCTTGAT	33489
6973	4057	CAUCAACA G CAGUAUCC	13108	GGATACTG GGCTAGCTACAACGA TGTTGATG	33490
6976	4054	CAACAGCA G UAUCCUGU	13109	ACAGGATA GGCTAGCTACAACGA TGCTGTTG	33491
6983	4047	AGUAUCCU G UACACAUC	13110	GATGTGTA GGCTAGCTACAACGA AGGATACT	33492
7001	4029	AGAUUCAA G CAUCUCAG	13111	CTGAGATG GGCTAGCTACAACGA TTGAATCT	33493
7009	4021	GCAUCUCA G CCCGGGUG	13112	CACCCGGG GGCTAGCTACAACGA TGAGATGC	33494
7015	4015	CAGCCCGG G UGUUAGCA	13113	TGCTAACA GGCTAGCTACAACGA CCGGGCTG	33495
7017	4013	GCCCGGGU G UUAGCAGG	13114	CCTGCTAA GGCTAGCTACAACGA ACCCGGGC	33496
7021	4009	GGGUGUUA G CAGGGCUA	13115	TAGCCCTG GGCTAGCTACAACGA TAACACCC	33497
7026	4004	UUAGCAGG G CUAGCAGC	13116	GCTGCTAG GGCTAGCTACAACGA CCTGCTAA	33498
7030	4000	CAGGGCUA G CAGCGGAA	13117	TTCCGCTG GGCTAGCTACAACGA TAGCCCTG	33499
7033	3997	GGCUAGCA G CGGAACAA	13118	TTGTTCCG GGCTAGCTACAACGA TGCTAGCC	33500
7046	3984	ACAACCAC G UUUGAUGU	13119	ACATCAA GGCTAGCTACAACGA GTGGTTGT	33501
7053	3977	CGUUUGAU G UCGUUGUG	13120	CACAACGA GGCTAGCTACAACGA ATCAACAG	33502
7056	3974	UUGAUGUC G UUGUGAAU	13121	ATTACAA GGCTAGCTACAACGA GACATCAA	33503
7059	3971	AUGUCGUU G UGAAGUUV	13122	AACATTCA GGCTAGCTACAACGA AACGACAT	33504
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCATA GGCTAGCTACAACGA ATTACCAA	33505
7071	3959	AUGUUAUG G CUCUCAGU	13124	ACTGAGAG GGCTAGCTACAACGA CATAACAT	33506
7078	3952	GGCUCUCA G UAUCAUCC	13125	GGATGATA GGCTAGCTACAACGA TGAGAGCC	33507

7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGGTAG GGCTAGCTACAACGA TTGGATGA	33508
7095	3935	AAGCUACC G CCAGUGAA	13127	TTCACTGG GGCTAGCTACAACGA GGTAGCTT	33509
7099	3931	UACCGCCA G UGAAUUCA	13128	TGAATTCA GGCTAGCTACAACGA TGGCGGTA	33510
7129	3901	CUCCACAGA G CAGAAUUU	13129	AAATTCTG GGCTAGCTACAACGA TCTGGGAG	33511
7139	3891	AGAAUUUG G CGGGCAUC	13130	GATGCCCG GGCTAGCTACAACGA CAAATTCT	33512
7143	3887	UUUGGCGG G CAUCGUGA	13131	TCACGATG GGCTAGCTACAACGA CCGCCAAA	33513
7148	3882	CGGGCAUC G UGAUAAGC	13132	GCTTATCA GGCTAGCTACAACGA GATGCCCG	33514
7155	3875	CGUGAUAA G CCAUUUGA	13133	TCAAATGG GGCTAGCTACAACGA TTATCACG	33515
7173	3857	AGAAAACA G CCGCCAAC	13134	GTTGGCGG GGCTAGCTACAACGA TGTTTTCT	33516
7176	3854	AAACAGCC G CCAACAUC	13135	GATGTTGG GGCTAGCTACAACGA GGCTGTTT	33517
7193	3837	AACAAAUA G UUCUCCUG	13136	CAGGAGAA GGCTAGCTACAACGA ATTTTGTT	33518
7202	3828	UUCUCCUG G UUGGUCCA	13137	TGGACCAA GGCTAGCTACAACGA CAGGAGAA	33519
7206	3824	CCUGGUUG G UCCAUCUC	13138	GAGATGGA GGCTAGCTACAACGA CAACCAGG	33520
7215	3815	UCCAUCUC G CUUUGAGA	13139	TCTCAAAG GGCTAGCTACAACGA GAGATGGA	33521
7230	3800	GAAACGAU G CCACCAUA	13140	TATGGTGG GGCTAGCTACAACGA ATCGTTTC	33522
7246	3784	AAACACUG G UUGUAUCU	13141	AGATACAA GGCTAGCTACAACGA CAGTGTTC	33523
7249	3781	CACUGGUU G UAUCUUGA	13142	TCAAGATA GGCTAGCTACAACGA AACCAGTG	33524
7260	3770	UCUUGAAG G UCGCCAUG	13143	CATGGCGA GGCTAGCTACAACGA CTTCAAGA	33525
7263	3767	UGAAGGUC G CCAUGAGC	13144	GCTCATGG GGCTAGCTACAACGA GACCTTCA	33526
7270	3760	CGCCAUGA G CGCCAAGU	13145	ACTTGGCG GGCTAGCTACAACGA TCATGGCG	33527
7272	3758	CCAUGAGC G CCAAGUGU	13146	ACACTTGG GGCTAGCTACAACGA GCTCATGG	33528
7277	3753	AGCGCCAA G UGUACCAC	13147	GTGGTACA GGCTAGCTACAACGA TTGGCGCT	33529
7279	3751	CGCCAAGU G UACCACGU	13148	ACGTGGTA GGCTAGCTACAACGA ACTTGGCG	33530
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GGCTAGCTACAACGA GTGGTACA	33531
7308	3722	UAGAUAUCU G CGAAAGCU	13150	AGCTTTCG GGCTAGCTACAACGA AGAATCTA	33532
7314	3716	CUGCGAAA G CUGCCCCC	13151	GGGGGCGG GGCTAGCTACAACGA TTTGCGAG	33533
7317	3713	CGAAAGCU G CCCCCACC	13152	GGTGGGGG GGCTAGCTACAACGA AGCTTTTC	33534
7337	3693	AUGACAUU G CGUAAACAC	13153	GTGTTACG GGCTAGCTACAACGA TATGTCAT	33535
7339	3691	GACAUAGC G UAACACAU	13154	ATGTGTTA GGCTAGCTACAACGA GCTATGTC	33536
7350	3680	ACACAUCA G UGUAAUGA	13155	TACTTACA GGCTAGCTACAACGA TGATGTGT	33537
7352	3678	ACAUCAGU G UAAGUAAU	13156	ATTACTTA GGCTAGCTACAACGA ACTGATGT	33538
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCATTA GGCTAGCTACAACGA TTACATGT	33539
7361	3669	UAAGUAAU G CCCCCAAA	13158	TTTGGGGG GGCTAGCTACAACGA ATTACTTA	33540
7381	3649	CAGGACUA G CAGAGCAA	13159	TTGCTCTG GGCTAGCTACAACGA TAGTCCTG	33541
7386	3644	CUAGCAGA G CAAUCAGU	13160	ACTGATTG GGCTAGCTACAACGA TCTGCTAG	33542
7393	3637	AGCAAUCA G UAUAGCUG	13161	CAGCTATA GGCTAGCTACAACGA TGATTGCT	33543
7398	3632	UCAGUAUA G CUGGCAUG	13162	CATGCCAG GGCTAGCTACAACGA TATACTGA	33544
7402	3628	UAUAGCUG G CAUGCUGA	13163	TCAGCATG GGCTAGCTACAACGA CAGCTATA	33545
7406	3624	GCUGGCAU G CUGAUCUU	13164	AAGATCAG GGCTAGCTACAACGA ATGCCAGC	33546
7416	3614	UGAUCUUG G CUGUCCAC	13165	GTGGACAG GGCTAGCTACAACGA CAGATCA	33547
7419	3611	UCUUGGCU G UCCACCUC	13166	GAGGTGGA GGCTAGCTACAACGA AGCCAGA	33548
7430	3600	CACCUCUU G CGAAGGAC	13167	GTCCTTCG GGCTAGCTACAACGA AAGAGGTG	33549
7446	3584	CCUCCUGG G UGGCCAAG	13168	CTTGGCCA GGCTAGCTACAACGA CCAGGAGG	33550
7449	3581	CCUGGGUG G CCAAGAAC	13169	GTTCTTGG GGCTAGCTACAACGA CACCCAGG	33551
7469	3561	ACCAGAAG G CCAACUG	13170	CAGTTGGG GGCTAGCTACAACGA CTTCTGGT	33552
7484	3546	UGAAAAGG G UCAAUCAU	13171	ATGATTGA GGCTAGCTACAACGA CCTTTTCA	33553
7497	3533	UCAUAUCA G CAUUAUAA	13172	TTATAATG GGCTAGCTACAACGA TGATATGA	33554
7506	3524	CAUUAUAA G CAUUCACU	13173	AGTGAATG GGCTAGCTACAACGA TTATAATG	33555
7516	3514	AUUCACUU G UGACUGCA	13174	TGCACTCA GGCTAGCTACAACGA AAGTGAAT	33556
7522	3508	UUGUGACU G CACGAGGG	13175	CCCTCGTG GGCTAGCTACAACGA AGTCACAA	33557
7530	3500	GCACGAGG G UCUUUUCA	13176	TGAAAAGA GGCTAGCTACAACGA CCTCGTGC	33558
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GGCTAGCTACAACGA ATGATGAA	33559
7549	3481	AUGUCUCU G UGGUCUGA	13178	TCAGACCA GGCTAGCTACAACGA AGAGACAT	33560
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGATCAGA GGCTAGCTACAACGA CACAGAGA	33561
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GGCTAGCTACAACGA TGTGGGTA	33562
7580	3450	CAACAGCC G CUGUCAGU	13181	ACTGACAG GGCTAGCTACAACGA GGCTGTTT	33563
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAACTGA GGCTAGCTACAACGA AGCGGCTG	33564
7587	3443	CGCUGUCA G UUUGGUAG	13183	CTACCAAA GGCTAGCTACAACGA TGACAGCG	33565
7592	3438	UCAGUUUG G UAGCGCAG	13184	CTGCGCTA GGCTAGCTACAACGA CAAACTGA	33566
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACTGCG GGCTAGCTACAACGA TACCAAAC	33567
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCACTG GGCTAGCTACAACGA GCTACCAA	33568
7600	3430	GUAGCGCA G UGGUGGUA	13187	TACCACCA GGCTAGCTACAACGA TGCCTTAC	33569
7603	3427	GCGCAGUG G UGGUAAAG	13188	CCTTACCA GGCTAGCTACAACGA CACTGCGC	33570

7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCTTA GGCTAGCTACAACGA CACCACTG	33571
7611	3419	GUGGUAAG G UGCAGCUC	13190	GAGCTGCA GGCTAGCTACAACGA CTTACCAC	33572
7613	3417	GGUAAGGU G CAGCUCCU	13191	AGGAGCTG GGCTAGCTACAACGA ACCTTACC	33573
7616	3414	AAGGUGCA G CUCCUGCA	13192	TGCAGGAG GGCTAGCTACAACGA TGCACCTT	33574
7622	3408	CAGCUCCU G CAGCACCA	13193	TGGTGTCTG GGCTAGCTACAACGA AGGAGCTG	33575
7625	3405	CUCCUGCA G CACCAAUC	13194	GATTGGTG GGCTAGCTACAACGA TGCAGGAG	33576
7635	3395	ACCAAUCU G UUAUCAAC	13195	GTTGATAA GGCTAGCTACAACGA AGATTGGT	33577
7649	3381	AACUUUCC G CUCUCUGU	13196	ACAGAGAG GGCTAGCTACAACGA GGAAAGTT	33578
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GGCTAGCTACAACGA AGAGAGCG	33579
7659	3371	UCUCUGUG G UGGUGCGA	13198	TCGCACCA GGCTAGCTACAACGA CACAGAGA	33580
7662	3368	CUGUGGUG G UGCGAGUG	13199	CACCTGCA GGCTAGCTACAACGA CACCACAG	33581
7664	3366	GUGGUGGU G CGAGUGGC	13200	GCCACTCG GGCTAGCTACAACGA ACCACCAC	33582
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACCTGCCA GGCTAGCTACAACGA TCGCACCA	33583
7671	3359	UGCGAGUG G CAGGUCCA	13202	TGGACCTG GGCTAGCTACAACGA CACTCGCA	33584
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCGTGGA GGCTAGCTACAACGA CTGCCACT	33585
7682	3348	GGUCCACG G UGUCCGCA	13204	TGCGGACA GGCTAGCTACAACGA CGTGGACC	33586
7684	3346	UCCACGGU G UCCGCAGC	13205	GCTCGGGA GGCTAGCTACAACGA ACCGTGGA	33587
7688	3342	CGGUGUCC G CAGCUCUC	13206	GAGAGCTG GGCTAGCTACAACGA GGACACCG	33588
7691	3339	UGUCCGCA G CUCUCACU	13207	AGTGAGAG GGCTAGCTACAACGA TGCGGACA	33589
7704	3326	CACUCAGG G UGACCGUA	13208	TACGGTCA GGCTAGCTACAACGA CCTGAGTG	33590
7710	3320	GGUGAGCC G UAGUCCU	13209	AGGAACTA GGCTAGCTACAACGA GGTCACCC	33591
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7721	3309	GUUCCUGG G CAGUAAUC	13211	GATTACTG GGCTAGCTACAACGA CCAGGAAC	33593
7724	3306	CCUGGGCA G UAAUCGAA	13212	TTCTGATTA GGCTAGCTACAACGA TGCCCAGG	33594
7733	3297	UAAUCGAA G UCAAUCUC	13213	GAGATTGA GGCTAGCTACAACGA TTCGATTA	33595
7748	3282	UCUACCCG G CCUUCGUC	13214	GACGAAGG GGCTAGCTACAACGA CGGGTAGA	33596
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCATGGGA GGCTAGCTACAACGA GAAGGCCG	33597
7763	3267	UCCCAUGG G CCCUGGUU	13216	AACCAGGG GGCTAGCTACAACGA CCATGGGA	33598
7769	3261	GGGCCUUG G UUUUGUGU	13217	ACACAAAA GGCTAGCTACAACGA CAGGGCCC	33599
7774	3256	CUGGUUUU G UGUCUUGU	13218	ACAAGACA GGCTAGCTACAACGA AAAACCAG	33600
7776	3254	GGUUUUUG G UCUUGUAC	13219	GTACAAGA GGCTAGCTACAACGA ACAAAACC	33601
7781	3249	UGUGUCUU G UACCCAGG	13220	TCTGGGTA GGCTAGCTACAACGA AAGACACA	33602
7789	3241	GUACCCAG G UCUCCGAU	13221	ATCGGAGA GGCTAGCTACAACGA CTGGGTAC	33603
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAATCA GGCTAGCTACAACGA AATCGGAG	33604
7805	3225	UUGUGAUU G CUUCGUGG	13223	CCACGAAG GGCTAGCTACAACGA AATCACA	33605
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7813	3217	GUUCUGUG G UCCCGCCA	13225	TGGCGGGA GGCTAGCTACAACGA CACGAAGC	33607
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACACTGG GGCTAGCTACAACGA GGGACCAC	33608
7822	3208	UCCCGCCA G UGUGACUG	13227	CAGTCACA GGCTAGCTACAACGA TGGCGGGA	33609
7824	3206	CCGCCAGU G UGACUGGU	13228	ACCAGTCA GGCTAGCTACAACGA ACTGGCGG	33610
7831	3199	UGUGACUG G UAUUAUCA	13229	TGATAATA GGCTAGCTACAACGA CAGTCACA	33611
7841	3189	AUUAUCAA G UCACUCUC	13230	GAGAGTGA GGCTAGCTACAACGA TTGATAAT	33612
7862	3168	AUUCCAUC G CCCACAA	13231	TTGTGGGG GGCTAGCTACAACGA GATGGAAT	33613
7872	3158	CCCACAAG G UAUGCGUC	13232	GACGCATA GGCTAGCTACAACGA CTTGTGGG	33614
7876	3154	CAAGGUAU G CGUCUCAG	13233	CTGAGACG GGCTAGCTACAACGA ATACCTTG	33615
7878	3152	AGGUAUGC G UCUCAGGC	13234	GCCTGAGA GGCTAGCTACAACGA GCATACCT	33616
7885	3145	CGUCUCAG G CCACGUAC	13235	GTACGTGG GGCTAGCTACAACGA CTGAGACG	33617
7890	3140	CAGGCCAC G UACAUGAU	13236	ATCATGTA GGCTAGCTACAACGA GTGGCCTG	33618
7917	3113	CCAGAACU G CCCUUCA	13237	TGAAAGGG GGCTAGCTACAACGA AGTTCTGG	33619
7927	3103	CCUUUCAA G CUUCCACG	13238	CGTGGGAG GGCTAGCTACAACGA TTGAAAGG	33620
7935	3095	GCUUCCAC G UAUCAUUG	13239	CAATGATA GGCTAGCTACAACGA GTGGAAGC	33621
7945	3085	AUCAUUGA G CCUGCUUU	13240	AAAGCAGG GGCTAGCTACAACGA TCAATGAT	33622
7949	3081	UUGAGCCU G CUUUCAAU	13241	ATTGAAAG GGCTAGCTACAACGA AGGCTCAA	33623
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGTGA GGCTAGCTACAACGA CTGTCCTA	33624
7976	3054	AGGUCACU G UGGAUCGC	13243	GCGATCCA GGCTAGCTACAACGA AGTGACCT	33625
7983	3047	UGUGGAUC G CCAAGUUG	13244	CAACTTGG GGCTAGCTACAACGA GATCCACA	33626
7988	3042	AUCGCCAA G UUGUUCUU	13245	AAGAACAA GGCTAGCTACAACGA TTGGCGAT	33627
7991	3039	GCCAAGUU G UUCUUGAC	13246	GTCAAGAA GGCTAGCTACAACGA AACTTGGC	33628
8001	3029	UCUUGACA G CCGUCCA	13247	TGGAACGG GGCTAGCTACAACGA TGTCAAGA	33629
8004	3026	UGACAGCC G UUCCAAUG	13248	CATTGGAA GGCTAGCTACAACGA GGCTGTCA	33630
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8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA GGCTAGCTACAACGA TGAATGTG	33632
8034	2996	AUUCAGUU G UGUUGCUC	13251	GAGCAACA GGCTAGCTACAACGA AACTGAAT	33633

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8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG GGCTAGCTACAACGA AACACAAAC	33635
8067	2963	ACAUCCGA G UGCUGGUG	13254	CACCAGCA GGCTAGCTACAACGA TCGGATGT	33636
8069	2961	AUCCGAGU G CUGGUGAG	13255	CTCACCAG GGCTAGCTACAACGA ACTCGGAT	33637
8073	2957	GAGUGCUG G UGAGACCA	13256	TGGTCTCA GGCTAGCTACAACGA CAGCACTC	33638
8105	2925	ACUUCUAA G CUAUUCCA	13257	TGGAATAG GGCTAGCTACAACGA TTAGAAGT	33639
8115	2915	UAUUCCAA G CGCGAUUC	13258	GAATCGCG GGCTAGCTACAACGA TTGGAATA	33640
8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAATCG GGCTAGCTACAACGA GCTTGGAA	33641
8127	2903	GAUUCUGA G UCGGACAU	13260	ATGTCCGA GGCTAGCTACAACGA TCAGAATC	33642
8142	2888	AUUCUUG G UCUCGGGA	13261	TCCGGAGA GGCTAGCTACAACGA CAAGGAAT	33643
8166	2864	CCACAAAG G UGUUGUUG	13262	CAACAACA GGCTAGCTACAACGA CTTTGTGG	33644
8168	2862	ACAAAGGU G UUGUUGGC	13263	GCCAACAA GGCTAGCTACAACGA ACCTTTGT	33645
8171	2859	AAGGUGUU G UUGGCGAG	13264	CTCGCCAA GGCTAGCTACAACGA AACACCTT	33646
8175	2855	UGUUGUUG G CGAGUUCU	13265	AGAACTCG GGCTAGCTACAACGA CAACAACA	33647
8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA GGCTAGCTACAACGA TCGCCAAC	33648
8185	2845	GAGUUCUG G UGCAAAUA	13267	TATTTGCA GGCTAGCTACAACGA CAGAATC	33649
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8219	2811	GCCUCCA G CCAAUUUC	13270	GAAATTGG GGCTAGCTACAACGA TGGAAGGC	33652
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8241	2789	UUUCCGUG G UGGCGGUG	13272	CACCGCCA GGCTAGCTACAACGA CACGGAAA	33654
8244	2786	CCGUGGUG G CGGUGAGG	13273	CCTCACCG GGCTAGCTACAACGA CACCACGG	33655
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8254	2776	GGUGAGGC G UUUAGGUG	13276	CACCTAAA GGCTAGCTACAACGA GCCTCACC	33658
8260	2770	GCGUUUAG G UGCUGACU	13277	AGTCAGCA GGCTAGCTACAACGA CTAAACGC	33659
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8270	2760	GCUGACUU G UACAUUCC	13279	GGAATGTA GGCTAGCTACAACGA AAGTCAGC	33661
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8333	2697	AAAAGAGU G UUCAGCUC	13283	GAGCTGAA GGCTAGCTACAACGA ACTCTTTT	33665
8338	2692	AGUGUUCA G CUCGUCCU	13284	AGGACGAG GGCTAGCTACAACGA TGAACACT	33666
8342	2688	UUCAGCUC G UCCUUCAC	13285	GTGAAGGA GGCTAGCTACAACGA GAGCTGAA	33667
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8368	2662	CAUUGAU G CUCCAGUC	13287	GACTGGAG GGCTAGCTACAACGA ATCAAATG	33669
8374	2656	AUGCUCCA G UCUGAAA	13288	TTTCCAGA GGCTAGCTACAACGA TGAGCAT	33670
8389	2641	AACUGAUC G UAGACCGC	13289	GCGGTCTA GGCTAGCTACAACGA GATCAGTT	33671
8396	2634	CGUAGACC G CACACUCC	13290	GGAGTGTG GGCTAGCTACAACGA GGTCTACG	33672
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8433	2597	UGAUCUUG G CUAGCCU	13292	AGGCCTAG GGCTAGCTACAACGA CAAGATCA	33674
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GGCTAGCTACAACGA CTAGCCAA	33675
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8446	2584	GCCUUGUG G CGUUCAG	13295	CTGAAACG GGCTAGCTACAACGA CACAAGGC	33677
8448	2582	CUUGUGGC G UUCAGGG	13296	CCCTGAAA GGCTAGCTACAACGA GCCACAAG	33678
8456	2574	GUUUCAGG G UAAUACUU	13297	AAGTATTA GGCTAGCTACAACGA CCTGAAAC	33679
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8534	2496	UCUUGCCG G CUGAUGUC	13305	GACATCAG GGCTAGCTACAACGA CGGCAAGA	33687
8540	2490	CGGUGAU G UCUAUGGC	13306	GCCATAGA GGCTAGCTACAACGA ATCAGCCG	33688
8547	2483	UGUCUAG G CACACCCA	13307	TGGGTGTG GGCTAGCTACAACGA CATAGACA	33689
8556	2474	CACACCCA G UGUCAGCG	13308	CGCTGACA GGCTAGCTACAACGA TGGGTGTG	33690
8558	2472	CACCCAGU G UCAGCGUG	13309	CACGCTGA GGCTAGCTACAACGA ACTGGGTG	33691
8562	2468	CAGUGUCA G CGUGCACG	13310	CGTGACAG GGCTAGCTACAACGA TGACACTG	33692
8564	2466	GUGUCAGC G UGCACGUU	13311	AACGTGCA GGCTAGCTACAACGA GCTGACAC	33693
8566	2464	GUCAGCGU G CACGUUCA	13312	TGAACGTG GGCTAGCTACAACGA ACGCTGAC	33694
8570	2460	GCGUGCAC G UUCACGGA	13313	TCCGTGAA GGCTAGCTACAACGA GTGCACGC	33695
8587	2443	GAGGAAGA G CAGAACUC	13314	GAGTTCTG GGCTAGCTACAACGA TCTTCTCT	33696

8604	2426	CUCCAACU G CGAGAAAC	13315	GTTTCTCG GGCTAGCTACAACGA AGTTGGAG	33697
8613	2417	CGAGAAAC G UGAGAGCU	13316	AGCTCTCA GGCTAGCTACAACGA GTTCTCTG	33698
8619	2411	ACGUGAGA G CUAUGGAC	13317	GTCCATAG GGCTAGCTACAACGA TCTCACGT	33699
8637	2393	UAUCACGA G CAUUGAUG	13318	CATCAATG GGCTAGCTACAACGA TCGTGATA	33700
8645	2385	GCAUUGAU G CCCAUCCA	13319	TGGATGGG GGCTAGCTACAACGA ATCAATGC	33701
8664	2366	ACAGGAGA G CCCCAGC	13320	GCTGGGGG GGCTAGCTACAACGA TCTCTGT	33702
8671	2359	AGCCCCA G CAAUCCUU	13321	AAGGATTG GGCTAGCTACAACGA TGGGGGCT	33703
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8682	2348	AUCCUUGC G UUAUCCAG	13323	CTGGATAA GGCTAGCTACAACGA GCAAGGAT	33705
8696	2334	CAGGACAU G CCUCCGAA	13324	TTCGGAGG GGCTAGCTACAACGA ATGTCTGT	33706
8707	2323	UCCGAACA G UGAGCGGA	13325	TCCGCTCA GGCTAGCTACAACGA TGTTCGGA	33707
8711	2319	AACAGUGA G CGGAUUGC	13326	GCATTCCG GGCTAGCTACAACGA TCCTGTGT	33708
8718	2312	AGCGGAU G CUCCUCCG	13327	CGGAGGAG GGCTAGCTACAACGA ATTCGCT	33709
8742	2288	GAUGGACA G CCUCCCCA	13328	TGGGAAGG GGCTAGCTACAACGA TGTCCATC	33710
8757	2273	CAACUGAG G UGAACACC	13329	GGTGTTC A GGCTAGCTACAACGA CTCAGTTG	33711
8783	2247	GAUCCAAA G UCCCAAGC	13330	GCTTGGGA GGCTAGCTACAACGA TTTGGATC	33712
8790	2240	AGUCCCAA G CUGUGUCU	13331	AGACACAG GGCTAGCTACAACGA TTGGGACT	33713
8793	2237	CCCAAGCU G UGUUCCU	13332	AGGAGACA GGCTAGCTACAACGA AGCTTGGG	33714
8795	2235	CAAGCUGU G UCUCUAG	13333	CTAGGAGA GGCTAGCTACAACGA ACAGCTTG	33715
8805	2225	CUCCUAGA G CGGCUAGU	13334	ACTAGCCG GGCTAGCTACAACGA TCTAGGAG	33716
8808	2222	CUAGAGCG G CUAGUCUC	13335	GAGACTAG GGCTAGCTACAACGA CGCTCTAG	33717
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8818	2212	UAGUCUCU G CGCUCUU	13337	AAGGAGCG GGCTAGCTACAACGA AGAGACTA	33719
8820	2210	GUCUCUGC G CUCCUUUG	13338	CAAAGGAG GGCTAGCTACAACGA GCAGAGAC	33720
8832	2198	CUUUGAGG G UGGUUGUA	13339	TACAACCA GGCTAGCTACAACGA CCTCAAAG	33721
8835	2195	UGAGGGUG G UUGUAAAG	13340	CTTTACAA GGCTAGCTACAACGA CACCTCA	33722
8838	2192	GGGUGGUU G UAAAGGCU	13341	AGCCTTTA GGCTAGCTACAACGA AACCACCC	33723
8844	2186	UUGUAAAG G CUUUGCCA	13342	TGGCAAAG GGCTAGCTACAACGA CTTTACAA	33724
8849	2181	AAGGCUUU G CCAUUGCU	13343	AGCATTGG GGCTAGCTACAACGA AAAGCCTT	33725
8855	2175	UUGCCAAU G CUGCUUCC	13344	GGAAGCAG GGCTAGCTACAACGA ATTGGCAA	33726
8858	2172	CCAAUGCU G CUUCCAGA	13345	TCTGGAAG GGCTAGCTACAACGA AGCATTGG	33727
8870	2160	CCAGACUU G UGCCAUG	13346	CATTGGCA GGCTAGCTACAACGA AGACTCTG	33728
8872	2158	AGACUUGU G CCAUUGU	13347	ACCATTGG GGCTAGCTACAACGA ACAAGTCT	33729
8879	2151	UGCCAAUG G UGAUUGAU	13348	ATCAATCA GGCTAGCTACAACGA CATTTGCA	33730
8890	2140	AUUGAUCU G UUGUUCUC	13349	GAGAACAA GGCTAGCTACAACGA AGATCAAT	33731
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GGCTAGCTACAACGA AACAGATC	33732
8903	2127	UCUCCUCU G CCCACCAC	13351	GTGGTGGG GGCTAGCTACAACGA AGAGGAGA	33733
8915	2115	ACCACUAV G UAUGAGUC	13352	GACTCATA GGCTAGCTACAACGA ATAGTGGT	33734
8921	2109	AUGUAUGA G UCUCCAAA	13353	TTTGGAGA GGCTAGCTACAACGA TCATACAT	33735
8932	2098	UCCAAAGG G UGGUUGCA	13354	TGGAACCA GGCTAGCTACAACGA CCTTTGGA	33736
8935	2095	AAAGGGUG G UUCCAAUU	13355	AATTGGAA GGCTAGCTACAACGA CACCCTTT	33737
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAAAG GGCTAGCTACAACGA TAAGGTCC	33738
8960	2070	ACCUUAGC G UUGGCCGU	13357	ACGGCCAA GGCTAGCTACAACGA GCTAAGGT	33739
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GGCTAGCTACAACGA CAACGCTA	33740
8967	2063	CGUUGGCC G UGGCCACU	13359	AGTGGCCA GGCTAGCTACAACGA GGCCAACG	33741
8970	2060	UGGCGGUG G CCACUGAA	13360	TTCAGTGG GGCTAGCTACAACGA CACGGCCA	33742
8987	2043	ACAAAAGG G UUGACAGU	13361	ACTGTCAA GGCTAGCTACAACGA CCTTTTGT	33743
8994	2036	GGUUGACA G UGACCAAU	13362	ATTGGTCA GGCTAGCTACAACGA TGTCAACC	33744
9005	2025	ACCAAUCU G CCCACUGG	13363	CCAGTGGG GGCTAGCTACAACGA AGATTGGT	33745
9013	2017	GCCACUG G CGUUGAGU	13364	ACCTAACG GGCTAGCTACAACGA CAGTGGGC	33746
9015	2015	CCACUGGC G UUAGGUUG	13365	CGACCTAA GGCTAGCTACAACGA GCCAGTGG	33747
9020	2010	GGCGUUG G UCGUUCAA	13366	TTGAACGA GGCTAGCTACAACGA CTAACGCC	33748
9023	2007	GUUAGGUC G UUCAUGA	13367	TCATTGAA GGCTAGCTACAACGA GACCTAAC	33749
9033	1997	UCAUUGAA G CCACUGAC	13368	GTCAGTGG GGCTAGCTACAACGA TTCATTGA	33750
9056	1974	GGAACUUU G CAAGGUCC	13369	GGACCTTG GGCTAGCTACAACGA AAAGTTCC	33751
9061	1969	UUUGCAAG G UCCAUCGG	13370	CGGATGGA GGCTAGCTACAACGA CTGCAAA	33752
9069	1961	GUCCAUC G UGCCAGUG	13371	CACTGGCA GGCTAGCTACAACGA GGATGGAC	33753
9071	1959	CCAUCCGU G CCAGUGUA	13372	TACACTGG GGCTAGCTACAACGA ACGGATGG	33754
9075	1955	CCGUGCCA G UGUACUGC	13373	GCAGTACA GGCTAGCTACAACGA TGGCACGG	33755
9077	1953	GUGCCAGU G UACUGCAA	13374	TTGCAGTA GGCTAGCTACAACGA ACTGGCAC	33756
9082	1948	AGUGUACU G CAAUCCA	13375	TGGAATTG GGCTAGCTACAACGA AGTACACT	33757
9099	1931	ACACCACA G UGCGUGA	13376	TCACGGCA GGCTAGCTACAACGA TGTGGTGT	33758
9101	1929	ACCACAGU G CCGUGACC	13377	GGTCACGG GGCTAGCTACAACGA ACTGTGGT	33759

9104	1926	ACAGUGCC G UGACCUGU	13378	ACAGGTCA GGCTAGCTACAACGA GGCCTGTG	33760
9111	1919	CGUGACCU G UGUCUGCG	13379	CGCAGACA GGCTAGCTACAACGA AGGTCACG	33761
9113	1917	UGACCUGU G UCUGCGGG	13380	CCCAGACA GGCTAGCTACAACGA ACAGGTCA	33762
9117	1913	CUGUGUCU G CGGGAGUC	13381	GACTCCCG GGCTAGCTACAACGA AGACACAG	33763
9123	1907	CUGCGGGA G UCCCAAGA	13382	TCTTGGGA GGCTAGCTACAACGA TCCCAGCAG	33764
9141	1889	ACUUGAAA G CCUUGAA	13383	TTCAAAGG GGCTAGCTACAACGA TTTCAAGT	33765
9155	1875	GAACAGAC G CCAUAGGU	13384	ACCTATGG GGCTAGCTACAACGA GTCTGTTC	33766
9162	1868	CGCCAUAG G UUGUCCC	13385	GGGAACAA GGCTAGCTACAACGA CTATGGCG	33767
9165	1865	CAUAGGUU G UUCCCUUC	13386	GAAGGGAA GGCTAGCTACAACGA AACCTATG	33768
9178	1852	CUUCAACU G CAAUUUUU	13387	AAAAATTG GGCTAGCTACAACGA AGTTGAAG	33769
9219	1811	GACCCGAC G UCAACUUG	13388	CAAGTTGA GGCTAGCTACAACGA GTCGGGTC	33770
9231	1799	ACUUGACA G UGUUGCUU	13389	AAGCAACA GGCTAGCTACAACGA TGTCAAGT	33771
9233	1797	UUGACAGU G UUGCUUGA	13390	TCAAGCAA GGCTAGCTACAACGA ACTGTCAA	33772
9236	1794	ACAGUGUU G CUUGAAAA	13391	TTTTCAAG GGCTAGCTACAACGA AACACTGT	33773
9258	1772	CAGGAAUG G CUCCAGCC	13392	GGCTGGAG GGCTAGCTACAACGA CATTCCTG	33774
9264	1766	UGGCUCCA G CCAAAGCU	13393	AGCTTTGG GGCTAGCTACAACGA TGGAGCCA	33775
9270	1760	CAGCCAAA G CUUGAUGC	13394	GCATCAAG GGCTAGCTACAACGA TTTGGCTG	33776
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCTCTG GGCTAGCTACAACGA ATCAAGCT	33777
9282	1748	GAUGCAGA G CUCCUCU	13396	AGAGGGAG GGCTAGCTACAACGA TCTGCATC	33778
9292	1738	UCCCUUUU G UGAGCCCA	13397	TGGGCTCA GGCTAGCTACAACGA AAGAGGGA	33779
9296	1734	UCUUGUGA G CCCAAUGC	13398	GCATTGGG GGCTAGCTACAACGA TCACAAGA	33780
9303	1727	AGCCCAAU G CUAUCACA	13399	TGTGATAG GGCTAGCTACAACGA ATTGGGCT	33781
9316	1714	CACAGACU G CUUCGUGG	13400	CCACGAAG GGCTAGCTACAACGA AGTCTGTG	33782
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GGCTAGCTACAACGA GAAGCAGT	33783
9324	1706	GCUUCGUG G CGUGUGGU	13402	ACCACACG GGCTAGCTACAACGA CACGAAGC	33784
9326	1704	UUCGUGGC G UGUGGUUC	13403	GAACCACA GGCTAGCTACAACGA GCCACGAA	33785
9328	1702	CGUGGCGU G UGGUUCU	13404	AGGAACCA GGCTAGCTACAACGA ACGCCACG	33786
9331	1699	GGCGUGUG G UUCCUCA	13405	TTGAGGAA GGCTAGCTACAACGA CACACGCC	33787
9351	1679	CCAUUAAAC G UCUCUCUG	13406	CAGAGAGA GGCTAGCTACAACGA GTTAATGG	33788
9359	1671	GUCUCUCU G UUCCUCCA	13407	TGGAGGAA GGCTAGCTACAACGA AGAGAGAC	33789
9372	1658	UCCACACA G UACUCCA	13408	TGGAAGTA GGCTAGCTACAACGA TGTGTGGA	33790
9381	1649	UACUCCA G CACUGCUC	13409	GAGCAGTG GGCTAGCTACAACGA TGGAAGTA	33791
9386	1644	CCAGCACU G CUCCAAGG	13410	CCTTGGAG GGCTAGCTACAACGA ACTGCTGG	33792
9398	1632	CAAGGGAG G UUGAGGUC	13411	GACCTCAA GGCTAGCTACAACGA CTCCCTTG	33793
9404	1626	AGGUUGAG G UCCAUGAA	13412	TTCATGGA GGCTAGCTACAACGA CTCAACCT	33794
9435	1595	CCAAGAAC G UCUUUGUU	13413	AACAAAGA GGCTAGCTACAACGA GTTCTTGG	33795
9441	1589	ACGUCUUU G UUCAACA	13414	TGTTGGAA GGCTAGCTACAACGA AAAGACGT	33796
9450	1580	UUCAACA G UCAUACG	13415	CGTGATGA GGCTAGCTACAACGA TGTTGGAA	33797
9458	1572	GUCAUCAC G UAGUAUGC	13416	GCATACTA GGCTAGCTACAACGA GTGATGAC	33798
9461	1569	AUCACGUA G UAUGCAU	13417	AATGCATA GGCTAGCTACAACGA TACGTGAT	33799
9465	1565	CGUAGUAG G CAUUGGUG	13418	CACCAATG GGCTAGCTACAACGA ATACTACG	33800
9471	1559	AUGCAUUG G UGUCAUUC	13419	GATTGACA GGCTAGCTACAACGA CAATGCAT	33801
9473	1557	GCAUUGGU G UCAAUCCC	13420	GGGATTGA GGCTAGCTACAACGA ACCTATGC	33802
9487	1543	CCCUGACC G UGGUUCAC	13421	GTGAACCA GGCTAGCTACAACGA GGTGAGGG	33803
9490	1540	UGACCGUG G UUCACAGU	13422	ACTGTGAA GGCTAGCTACAACGA CACGGTCA	33804
9497	1533	GGUUCACA G UCCACUGU	13423	ACAGTGGA GGCTAGCTACAACGA TGTGAACC	33805
9504	1526	AGUCCACU G UCACCUCU	13424	AGAGGTGA GGCTAGCTACAACGA AGTGGACT	33806
9526	1504	UUCUCCAA G CUUAGUG	13425	CACTAAAG GGCTAGCTACAACGA TTGGAGAA	33807
9532	1498	AAGCUUUA G UGUGUAUG	13426	CATACACA GGCTAGCTACAACGA TAAAGCTT	33808
9534	1496	GCUUAGU G UGUAGAA	13427	TTCATACA GGCTAGCTACAACGA ACTAAAGC	33809
9536	1494	UUUAGUGU G UAUGAAGG	13428	CTTCATA GGCTAGCTACAACGA ACCTATAA	33810
9544	1486	GUAGAAG G CGCCGAG	13429	CTGCGGCG GGCTAGCTACAACGA CTTCATAC	33811
9546	1484	AUGAAGGC G CCGCAGGA	13430	TCCTGCGG GGCTAGCTACAACGA GCCTTCAT	33812
9549	1481	AAGGCGCC G CAGGAGUG	13431	CACTCCTG GGCTAGCTACAACGA GGGCCTT	33813
9555	1475	CCGACGGA G UGAUGCUG	13432	CAGCATCA GGCTAGCTACAACGA TCCTGCGG	33814
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGATTTCAG GGCTAGCTACAACGA ATCACTCC	33815
9573	1457	AUCUCCCU G CCUGAGUG	13434	CACTCAGG GGCTAGCTACAACGA AGGGAGAT	33816
9579	1451	CUGCCUGA G UGGCUCCA	13435	TGGAGCCA GGCTAGCTACAACGA TCAGGCAG	33817
9582	1448	CCUGAGUG G CUCCAACC	13436	GGTTGGAG GGCTAGCTACAACGA CACTCAGG	33818
9592	1438	UCCAACCU G UGUGGAGU	13437	ACTCCACA GGCTAGCTACAACGA AGGTTGGA	33819
9594	1436	CAACUGU G UGGAGUAG	13438	CTACTCCA GGCTAGCTACAACGA ACAGGTTG	33820
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACTA GGCTAGCTACAACGA TCCACACA	33821
9602	1428	GUGGAGUA G UUCCGUG	13440	CACGGAAA GGCTAGCTACAACGA TACTCCAC	33822

9608	1422	UAGUUUCC G UGCGACUC	13441	GAGTCGCA GGCTAGCTACAACGA GGAAACTA	33823
9610	1420	GUUUCGCG G CGACUCCA	13442	TGGAGTCG GGCTAGCTACAACGA ACGGAAAC	33824
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACTA GGCTAGCTACAACGA TGTGGAGT	33825
9624	1406	CCACAGUA G UUGGUCCA	13444	TGGACCAA GGCTAGCTACAACGA TACTGTGG	33826
9628	1402	AGUAGUUG G UCCAUGGA	13445	TCCATGGA GGCTAGCTACAACGA CAACTACT	33827
9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGTGG GGCTAGCTACAACGA CATTTTTG	33828
9653	1377	GCCACUUC G UACUUGAU	13447	ATCAAGTA GGCTAGCTACAACGA GAAGTGGC	33829
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GGCTAGCTACAACGA CATCTTGA	33830
9690	1340	UUCCUAUU G CCUUGGUA	13449	TACCAAGG GGCTAGCTACAACGA AATAGGAA	33831
9696	1334	UUGCCUUG G UAGAGCAG	13450	CTGCTCTA GGCTAGCTACAACGA CAAGGCAA	33832
9701	1329	UUGGUAGA G CAGGCAAA	13451	TTTGCCTG GGCTAGCTACAACGA TCTACCAA	33833
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAATTTG GGCTAGCTACAACGA CTGCTCTA	33834
9714	1316	CAAAUUG G CGCAUGUG	13453	CACATGCG GGCTAGCTACAACGA CAAATTTG	33835
9716	1314	AAUUUGGC G CAUGUGUC	13454	GACACATG GGCTAGCTACAACGA GCCAAATT	33836
9720	1310	UGGCGCAU G UGUCAAUG	13455	CATTGACA GGCTAGCTACAACGA ATGCGCCA	33837
9722	1308	GCGCAUGU G UCAAUGCU	13456	AGCATTGA GGCTAGCTACAACGA ACATGCGC	33838
9728	1302	GUGUCAAU G CUUCCUUU	13457	AAAGGAAG GGCTAGCTACAACGA ATTGACAC	33839
9737	1293	CUUCCUUU G CCAAAUAA	13458	TTATTTGG GGCTAGCTACAACGA AAAGGAAG	33840
9749	1281	AAUAAUCC G CAGCCGUU	13459	AACGGCTG GGCTAGCTACAACGA GGATTATT	33841
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACGG GGCTAGCTACAACGA TCGCGATT	33842
9755	1275	CCGCAGCC G UUGCCCCA	13461	TGGGGCAA GGCTAGCTACAACGA GGCTGCGG	33843
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCTGGGG GGCTAGCTACAACGA AACGGCTG	33844
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG GGCTAGCTACAACGA TGGGGCAA	33845
9770	1260	CAGCCCUU G UCCACCAC	13464	GTGGTGGG GGCTAGCTACAACGA AGGGGCTG	33846
9784	1246	CACUCCUU G UCUGCACA	13465	TGTGCAGA GGCTAGCTACAACGA AAGGAGTG	33847
9788	1242	CCUUGUCU G CACACAAA	13466	TTTGTGTG GGCTAGCTACAACGA AGACAAGG	33848
9798	1232	ACACAAAA G CUGGGUCA	13467	TGACCCAG GGCTAGCTACAACGA TTTTGTGT	33849
9803	1227	AAAGCUGG G UCAGCAG	13468	CGTGTGTA GGCTAGCTACAACGA CCAGCTTT	33850
9807	1223	CUGGGUCA G CACGUUUG	13469	CAAACGTG GGCTAGCTACAACGA TGACCCAG	33851
9811	1219	GUCAGCAC G UUUGUCAU	13470	ATGACAAA GGCTAGCTACAACGA GTGCTGAC	33852
9815	1215	GCACGUUU G UCAUUGUG	13471	CACAATGA GGCTAGCTACAACGA AAACGTGC	33853
9821	1209	UUGUCAUU G UGAGCUUC	13472	GAACTCA GGCTAGCTACAACGA AATGACAA	33854
9825	1205	CAUUGUGA G CUUCUCCC	13473	GGGAGAAG GGCTAGCTACAACGA TCACAATG	33855
9837	1193	CUCCCAUG G UCGGGCAC	13474	GTGCCCGA GGCTAGCTACAACGA CATGGGAG	33856
9842	1188	AUGGUCGG G CACGCAGC	13475	GCTGCGTG GGCTAGCTACAACGA CCGACCAT	33857
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAAGCTG GGCTAGCTACAACGA GTGCCCGA	33858
9849	1181	GGCACGCA G CUUUGGUG	13477	CACCAAAG GGCTAGCTACAACGA TCGGTGCC	33859
9855	1175	CAGCUUUG G UGGAGAGA	13478	TCTCTCCA GGCTAGCTACAACGA CAAAGCTG	33860
9866	1164	GAGAGAUC G CUGACGGU	13479	ACCGTCAG GGCTAGCTACAACGA GATCTCTC	33861
9873	1157	CGCUGACG G UAGCCAAA	13480	TTTGGCTA GGCTAGCTACAACGA CGTCACGC	33862
9876	1154	UGACGUUA G CCAAUAG	13481	CTATTGGG GGCTAGCTACAACGA TACCGTCA	33863
9884	1146	GCCAAUAU G CAAUAACU	13482	AGTTATTG GGCTAGCTACAACGA TATTGGC	33864
9893	1137	CAUAUAACU G CGGACCUC	13483	GAGGTCCG GGCTAGCTACAACGA AGTTATTG	33865
9903	1127	GGACCUCU G CCAGGUUG	13484	CAACCTGG GGCTAGCTACAACGA AGAGGTCC	33866
9908	1122	UCUGCCAG G UUGACCGC	13485	GCGGTCAA GGCTAGCTACAACGA CTGGCAGA	33867
9915	1115	GGUUGACC G CCUCCAUA	13486	TATGGAGG GGCTAGCTACAACGA GGTCAACC	33868
9945	1085	CAUCGAUG G UAGGCUUG	13487	CAAGCCTA GGCTAGCTACAACGA CATCGATG	33869
9949	1081	GAUGGUAG G CUUGUCCU	13488	AGGACAAAG GGCTAGCTACAACGA CTACCATC	33870
9953	1077	GUAGGCUU G UCCUUAGA	13489	TCTAAGGA GGCTAGCTACAACGA AAGCCTAC	33871
9969	1061	ACAUGAUA G UCACGCAG	13490	CTGCGTGA GGCTAGCTACAACGA TATCATGT	33872
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCTG GGCTAGCTACAACGA GTGACTAT	33873
9977	1053	GUCACGCA G CUGUCGCC	13492	GGCGACAG GGCTAGCTACAACGA TCGGTGAC	33874
9980	1050	ACGCAGCU G UCGCCUUC	13493	GAAGGCGA GGCTAGCTACAACGA AGCTGCGT	33875
9983	1047	CAGCUGUC G CCUUCGAG	13494	CTCGAAGG GGCTAGCTACAACGA GACAGCTG	33876
10008	1022	CCACCCAU G UUGCUCU	13495	TGGAGCAA GGCTAGCTACAACGA ATGGGTGG	33877
10011	1019	CCCAUGUU G CUCCAGAC	13496	GTCTGGAG GGCTAGCTACAACGA AACATGGG	33878
10034	996	UCCAAGAA G UCUCUGUU	13497	AACAGAGA GGCTAGCTACAACGA TTCTTGGA	33879
10040	990	AAGUCUCU G UUGCUCAU	13498	ATTAGCAA GGCTAGCTACAACGA AGAGACTT	33880
10043	987	UCUCUGUU G CUCAUUC	13499	GGAAATGAG GGCTAGCTACAACGA AGACAGAG	33881
10055	975	AUCCAAG G CAGUUGAA	13500	TTCAACTG GGCTAGCTACAACGA CTTGGAAT	33882
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCTTCAA GGCTAGCTACAACGA TGCCTTGG	33883
10064	966	CAGUUGAA G CUGUAAGC	13502	GCTTACAG GGCTAGCTACAACGA TTCAACTG	33884
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCTTA GGCTAGCTACAACGA AGCTTCAA	33885

10071	959	AGCUGUAA G CUGGGGCC	13504	GGCCCCAG GGCTAGCTACAACGA TTACAGCT	33886
10077	953	AAGCUGGG G CCACCAA	13505	TTTGGTGG GGCTAGCTACAACGA CCCAGCTT	33887
10087	943	CACCAAAA G CAAUAGCA	13506	TGCTATTG GGCTAGCTACAACGA TTTTGGTG	33888
10093	937	AAGCAAUA G CACGACAA	13507	TTGTCGTG GGCTAGCTACAACGA TATTGCTT	33889
10114	916	AACUCUCU G CAUGGUGU	13508	ACACCATG GGCTAGCTACAACGA AGAGAGTT	33890
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GGCTAGCTACAACGA CATGCAGA	33891
10121	909	UGCAUGGU G UUGCUCUC	13510	GGGAGCAA GGCTAGCTACAACGA ACCATGCA	33892
10124	906	AUGGUGUU G CUCCCAAG	13511	CTTGGGAG GGCTAGCTACAACGA AACACCAT	33893
10132	898	GCUCCCAA G CAUCCAAC	13512	GTTGGATG GGCTAGCTACAACGA TTGGGAGC	33894
10149	881	CAAUGACG G CUGCCACC	13513	GGTGGCAG GGCTAGCTACAACGA CGTCATTG	33895
10152	878	UGACGGCU G CCACCAGG	13514	CCTGGTGG GGCTAGCTACAACGA AGCCGTCA	33896
10161	869	CCACCAGG G CAUAUCCA	13515	TGGATATG GGCTAGCTACAACGA CCTGGTGG	33897
10172	858	UAUCCAGG G UUCUCUAA	13516	TTGAGGAA GGCTAGCTACAACGA CTGGATA	33898
10194	836	AUGAUUCU G UUUUUACC	13517	GGTAAAAA GGCTAGCTACAACGA AGAATCAT	33899
10212	818	AAUACCUU G UGGCCUUG	13518	CAAGGCCA GGCTAGCTACAACGA AAGGTATT	33900
10215	815	ACCUUGUG G CCUUGGUG	13519	CACCAAGG GGCTAGCTACAACGA CACAAGGT	33901
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA GGCTAGCTACAACGA CAAGGCCA	33902
10223	807	GCCUUGGU G CUGUCCAU	13521	ATGGACAG GGCTAGCTACAACGA ACCAAGGC	33903
10226	804	UUGGUGCU G UCCAUCCA	13522	TGGATGGA GGCTAGCTACAACGA AGCACCAG	33904
10236	794	CCAUCCAA G CCCCCUUC	13523	GAAGGGGG GGCTAGCTACAACGA TTGGATGG	33905
10247	783	CCCUUCUU G UUCGCUAG	13524	CTAGCGAA GGCTAGCTACAACGA AAGAAGGG	33906
10251	779	UCUUGUUC G CUAGAGUG	13525	CACCTCTAG GGCTAGCTACAACGA GAACAAGA	33907
10257	773	UCGCUAGA G UGCUUUCU	13526	AGAAAGCA GGCTAGCTACAACGA TCTAGCGA	33908
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GGCTAGCTACAACGA ACTCTAGC	33909
10268	762	CUUUCUCC G UGUGUCUG	13528	CAGACACA GGCTAGCTACAACGA GGAGAAAG	33910
10270	760	UUCUCCGU G UGUCUGCA	13529	TGCAGACA GGCTAGCTACAACGA ACGGAGAA	33911
10272	758	CUCCGUGU G UCUGCACU	13530	AGTCAGAG GGCTAGCTACAACGA ACACGGAG	33912
10276	754	GUGUGUCU G CACUGUCA	13531	TGACAGTG GGCTAGCTACAACGA AGACACAC	33913
10281	749	UCUGCACU G UCAGUGAC	13532	GTCCTGTA GGCTAGCTACAACGA AGTGCAGA	33914
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGTCA GGCTAGCTACAACGA TGACAGTG	33915
10298	732	CUCCGACU G CGUCUUGA	13534	TCAAGACG GGCTAGCTACAACGA AGTCGGAG	33916
10300	730	CCGACUGC G UCUUGAGU	13535	ACTCAAGA GGCTAGCTACAACGA GCAGTCGG	33917
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA GGCTAGCTACAACGA TCAAGACG	33918
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GGCTAGCTACAACGA CACTCAAG	33919
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GGCTAGCTACAACGA GCCACTCA	33920
10314	716	AGUGGCGU G UCUUGGUG	13539	CACCAAGA GGCTAGCTACAACGA ACGCCACT	33921
10320	710	GUGUCUUG G UGCAUCUU	13540	AAGATGCA GGCTAGCTACAACGA CAAGACAC	33922
10322	708	GUCUUGGU G CAUCUUC	13541	GGAAGATG GGCTAGCTACAACGA ACCAAGAC	33923
10340	690	UACCUGAC G UAGACUGC	13542	GCAGTCTA GGCTAGCTACAACGA GTCAGGTA	33924
10347	683	CGUAGACU G CUGACUUU	13543	AAAGTCAG GGCTAGCTACAACGA AGTCTACG	33925
10356	674	CUGACUUU G UGCACCAA	13544	TTGGTGCA GGCTAGCTACAACGA AAAGTCAG	33926
10358	672	GACUUGU G CACCAACA	13545	TGTTGGTG GGCTAGCTACAACGA ACAAAGTC	33927
10367	663	CACCAACA G UCGAUGUC	13546	GACATCGA GGCTAGCTACAACGA TGTTGGTG	33928
10373	657	CAGUCGAU G UCUUCUGG	13547	CCAGAAGA GGCTAGCTACAACGA ATCGACTG	33929
10392	638	CAUUACCA G CCGACAGC	13548	GCTGTCCG GGCTAGCTACAACGA TGGAATG	33930
10399	631	AGCCGACA G CACUGGGC	13549	GCCAGTGG GGCTAGCTACAACGA TGTCGGCT	33931
10406	624	AGCACUGG G CAUUCUAU	13550	TATGAATG GGCTAGCTACAACGA CCAAGTCT	33932
10416	614	AUUCAUAA G UGAUAGUA	13551	TACTATCA GGCTAGCTACAACGA TTATGAAT	33933
10422	608	AAGUGAUU G UAUCAUCG	13552	CGATGATA GGCTAGCTACAACGA TATCACTT	33934
10430	600	GUAUCAUC G CACAUGUA	13553	TACATGTG GGCTAGCTACAACGA GATGATAC	33935
10436	594	UCGCACAU G UAUCCAC	13554	GTGGGATA GGCTAGCTACAACGA ATGTGCGA	33936
10452	578	CAUCCAUU G CUCUGACA	13555	TGTCAGAG GGCTAGCTACAACGA AATGGATG	33937
10463	567	CUGACAAU G CAUAGGUU	13556	AACCTATG GGCTAGCTACAACGA ATTGTCAG	33938
10469	561	AUGCAUAG G UUCUUUCC	13557	GGAAAGAA GGCTAGCTACAACGA CTATGCAT	33939
10479	551	UCUUUCCA G CAGCUGUU	13558	AACAGCTG GGCTAGCTACAACGA TGGAAAGA	33940
10482	548	UUCAGCA G CUGUUGGA	13559	TCCAACAG GGCTAGCTACAACGA TGCTGGAA	33941
10485	545	CAGCAGCU G UUGGAAUC	13560	GATTCCAA GGCTAGCTACAACGA AGCTGCTG	33942
10494	536	UUGGAAUC G UGAUGACA	13561	TGTCATCA GGCTAGCTACAACGA GATTCCAA	33943
10506	524	UGACAUUC G UGACGUCA	13562	TGACGTCA GGCTAGCTACAACGA AGATGTCA	33944
10511	519	UCUGUGAC G UCAGUAGC	13563	GCTACTGA GGCTAGCTACAACGA GTCACAGA	33945
10515	515	UGACGUCA G UAGCAUUU	13564	AAATGCTA GGCTAGCTACAACGA TGACGTCA	33946
10518	512	CGUCAGUA G CAUUUACC	13565	GGTAAATG GGCTAGCTACAACGA TACTGACG	33947
10527	503	CAUUUACC G UCAUCAUC	13566	GATGATGA GGCTAGCTACAACGA GGTAAATG	33948

10550	480	CCUUGGAA G UUAGAGAG	13567	CTCTCTAA GGCTAGCTACAACGA TTCCAAGG	33949
10560	470	UAGAGAGG G UAACUGCU	13568	AGCAGTTA GGCTAGCTACAACGA CCTCTCTA	33950
10566	464	GGGUAAACU G CUCCUACG	13569	CGTAGGAG GGCTAGCTACAACGA AGTTACCC	33951
10574	456	GCUCCUAC G CUGGCGAU	13570	ATCGCCAG GGCTAGCTACAACGA GTAGGAGC	33952
10578	452	CUACGCUG G CGAUCAGG	13571	CCTGATCG GGCTAGCTACAACGA CAGGTAG	33953
10586	444	GCGAUCAG G CCAAUCAU	13572	ATGATTGG GGCTAGCTACAACGA CTGATCGC	33954
10599	431	UCAUGACU G CAAUUCGG	13573	CGGAATTG GGCTAGCTACAACGA AGTCATGA	33955
10608	422	CAAUUCGG G UCUIUCCU	13574	AGGAAAGA GGCTAGCTACAACGA CGGAATTG	33956
10630	400	UUUCUUUU G UUUUGAGC	13575	GCTCAAAA GGCTAGCTACAACGA AAAAGAAA	33957
10637	393	UGUUUUGA G CUCCGCCG	13576	CGGCGGAG GGCTAGCTACAACGA TCAAAACA	33958
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10653	377	GAUUGAUA G CACUGGUC	13578	GACCAATG GGCTAGCTACAACGA TATCAATC	33960
10659	371	UAGCACUG G UCAAGGUC	13579	GACCTTGA GGCTAGCTACAACGA CAGTGCTA	33961
10665	365	UGGUCAAG G UCCCUAGU	13580	ACTAGGGA GGCTAGCTACAACGA CTTGACCA	33962
10672	358	GGUCCUA G UUCUUCU	13581	AGAAGGAA GGCTAGCTACAACGA TAGGGACC	33963
10694	336	CUCAGAAG G UGUUUAU	13582	ATGAAACA GGCTAGCTACAACGA CTTCTGAG	33964
10696	334	CAGAAGGU G UUUCAUCG	13583	CGATGAAA GGCTAGCTACAACGA ACCTTCTG	33965
10704	326	GUUUAUC G CUGUUUGU	13584	ACAAACAG GGCTAGCTACAACGA GATGAAAC	33966
10707	323	UCAUCGCU G UUUGUUUG	13585	CAAACAAA GGCTAGCTACAACGA AGCGATGA	33967
10711	319	CGCUGUUU G UUUGUUA	13586	TGAACAAA GGCTAGCTACAACGA AAACAGCG	33968
10715	315	GUUUGUUU G UUCACACC	13587	GGTGTGAA GGCTAGCTACAACGA AAACAAAC	33969
10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGTG GGCTAGCTACAACGA TGGATCGA	33970
10743	287	CCAGCACU G CUCGGGUC	13589	GACCCGAG GGCTAGCTACAACGA ACGTCTGG	33971
10749	281	CUGCUCGG G UCGGAGCA	13590	TGCTCCGA GGCTAGCTACAACGA CCGAGCAG	33972
10755	275	GGGUCGGA G CAAUUGCU	13591	AGCAATTG GGCTAGCTACAACGA TCCGACCC	33973
10761	269	GAGCAAUU G CUGUGAAC	13592	GTTACAG GGCTAGCTACAACGA AATTGCTC	33974
10764	266	CAAUUGCU G UGAACCUG	13593	CAGGTTCA GGCTAGCTACAACGA AGCAATTG	33975
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10788	242	CCAAGAGA G CCAACACA	13595	TGTGTTGG GGCTAGCTACAACGA TCTCTTGG	33977
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10807	223	UCGUUUUG G CCCUUGC	13597	GCAAGGGG GGCTAGCTACAACGA CAATACGA	33979
10814	216	GGCCCCUU G CCGUCGAU	13598	ATCGACGG GGCTAGCTACAACGA AAGGGGCC	33980
10817	213	CCCUUGCC G UCGAUCAG	13599	CTGATCGA GGCTAGCTACAACGA GGCAAGGG	33981
10826	204	UCGAUCAG G CUCAACAU	13600	ATGTTGAG GGCTAGCTACAACGA CTGATCGA	33982
10836	194	UCAACAUA G CCCUCUUC	13601	GAAGAGGG GGCTAGCTACAACGA TATGTTGA	33983
10846	184	CCUCUUA G UCCAUAU	13602	TGATTGGA GGCTAGCTACAACGA TGAAGAGG	33984
10865	165	GACAACAC G CGGGCAU	13603	ATGCCCGG GGCTAGCTACAACGA GTGTTGTC	33985
10870	160	CACGCGGG G CAUUCGGC	13604	GCGGAATG GGCTAGCTACAACGA CCCGCGTG	33986
10877	153	GGCAUUCG G CGUUUUG	13605	CTAAACG GGCTAGCTACAACGA GGAATGCC	33987
10879	151	CAUUCGGC G UUUUAGCA	13606	TCTTAAAA GGCTAGCTACAACGA GCGGAATG	33988
10885	145	GCGUUUA G CAUAUUGA	13607	TCAATATG GGCTAGCTACAACGA TAAACCGC	33989
10896	134	UAUUGACA G CCCGGCUC	13608	GAGCCGGG GGCTAGCTACAACGA TGTCAATA	33990
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10912	118	CUUGCCGG G CCUCUUG	13611	CAGGAGGG GGCTAGCTACAACGA CCGGCAAG	33993
10921	109	CCCUCCUG G UUCUUAU	13612	CTAAGAAA GGCTAGCTACAACGA CAGGAGGT	33994
10944	86	AGAUCUUC G UGCUAAGA	13613	TCTTAGCA GGCTAGCTACAACGA GAAGATCT	33995
10946	84	AUCUUCGU G CUAAGAAA	13614	TTTCTTAG GGCTAGCTACAACGA ACGAAGAT	33996
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10961	69	AACAGCUC G CACUGUGU	13616	ACACAGTG GGCTAGCTACAACGA GAGCTGTT	33998
10966	64	CUCGCACU G UGUUAAU	13617	AATTAACA GGCTAGCTACAACGA AGTGCAG	33999
10968	62	CGCACUGU G UUAUUGU	13618	ACAAATTA GGCTAGCTACAACGA ACAGTGC	34000
10975	55	UGUUAAU G UUGUAAU	13619	ATTAACAA GGCTAGCTACAACGA AATTAACA	34001
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11010	20	GUUUGUCA G CGACACA	13623	TGTGTGAG GGCTAGCTACAACGA TGACAAAC	34005
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101	10929	AGGUGUCA A UAUGUGU	13626	ACAGCATA GGCTAGCTACAACGA TGACACCT	34008
146	10884	CUCCACUA A CCUCUAGU	13627	ACTAGAGG GGCTAGCTACAACGA TAGTGGAG	34009
165	10865	UCCCCUG A CCUACAGC	13628	GCTGTAGG GGCTAGCTACAACGA CAGGGGAA	34010
202	10828	CACUUUAA A CCGCGGGG	13629	CCCCGCGG GGCTAGCTACAACGA TTAAAGTG	34011

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295	10735	CUUUGUUA A CCCAGUCC	13632	GGACTGGG GGCTAGCTACAACGA TAACAAAG	34014
323	10707	UAUCGCAG A CUGCACUC	13633	GAGTGCAG GGCTAGCTACAACGA CTGCATA	34015
363	10667	GUGGUCUG A CAUUGGGC	13634	GCCCAATG GGCTAGCTACAACGA CAGACCAC	34016
384	10646	AAGUUACA A CAUGUGGG	13635	CCCACATG GGCTAGCTACAACGA TGTAACCT	34017
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683	10347	UUUAGUGA A CUCAUGUA	13650	TACATGAG GGCTAGCTACAACGA TCACTAAA	34032
692	10338	CUCAUGUA A UCCACAUU	13651	TATGTGGA GGCTAGCTACAACGA TACATGAG	34033
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717	10313	CUCCGAUG A UUGCUCUG	13653	CAGAGCAA GGCTAGCTACAACGA CATCGGAG	34035
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900	10130	GGUUCAG A CCUCCAAC	13662	GTTGGAGG GGCTAGCTACAACGA CTGGAACC	34044
907	10123	GACCUCCA A CAUGUCCU	13663	AGGACATG GGCTAGCTACAACGA TGGAGGTC	34045
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999	10031	CGGAGCAA A UGGCGUUG	13669	CAACGCCA GGCTAGCTACAACGA TTGCTCCG	34051
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1076	9954	UUAGCCAG A CAAGCAGU	13671	ACTGCTTG GGCTAGCTACAACGA CTGGCTAA	34053
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1114	9916	CCCUGGAG A UAUGCGAG	13673	CTGCATA GGCTAGCTACAACGA CTCCAGGG	34055
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1263	9767	ACUCUUGG A UGUCUUG	13683	CAAAGACA GGCTAGCTACAACGA CCAAGAGT	34065
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1356	9674	CUCCACUG A CAGCCAUG	13687	CATGGCTG GGCTAGCTACAACGA CAGTGGAG	34069
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1874	9156	UUGAGAAA A CCCAGAGC	13711	GCTCTGGG GGCTAGCTACAACGA TTTCTCAA	34093
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1923	9107	UGAACCAA A UGGCUCUG	13714	CAGAGCCA GGCTAGCTACAACGA TTGGTTCA	34096
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2003	9027	CAAGUGUG A CAUCCCC	13717	GGGGAATG GGCTAGCTACAACGA CACACTTG	34099
2018	9012	CCCCGCAG A UGUGCCUC	13718	GAGGCACA GGCTAGCTACAACGA CTGCGGGG	34100
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2067	8963	GAUCUUA A CUGCUUCU	13721	AGAAGCAG GGCTAGCTACAACGA TGAAGATC	34103
2093	8937	CUCCAUUG A UUCUGCUC	13722	GAGCAGAA GGCTAGCTACAACGA CAATGGAG	34104
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2194	8836	GGCCAAA A CGCCACA	13727	TGTGGGCG GGCTAGCTACAACGA TTTTGGCC	34109
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2340	8690	CAUUCGUG A UGGUGUCC	13731	GGACACCA GGCTAGCTACAACGA CACGAATG	34113
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2382	8648	CUCCAUUG A CCAGCGAA	13733	TTGCTGGG GGCTAGCTACAACGA CAATGGAG	34115
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2933	8097	GUGUCACA A CACUCAGA	13754	TCTGAGTG GGCTAGCTACAACGA TGTGACAC	34136
2953	8077	UCUGUAGA A CACAUCCA	13755	TGGATGTG GGCTAGCTACAACGA TCTACAGA	34137

2979	8051	UCAUGGUG A CAAUGUUC	13756	GAACATTG GGCTAGCTACAACGA CACCATGA	34138
2982	8048	UGGUGACA A UGUUCCAU	13757	ATGGAACA GGCTAGCTACAACGA TGTCACCA	34139
2996	8034	CAUCCAUA A CUUUGCAC	13758	GTGCAAAG GGCTAGCTACAACGA TATGGATG	34140
3029	8001	UGUCCGGG A CCGCCCUU	13759	AAGGGCGG GGCTAGCTACAACGA CCCGGACA	34141
3051	7979	ACCCUCUG A CUUCUUGG	13760	CAAAGAAG GGCTAGCTACAACGA CAGAGGGT	34142
3060	7970	CUUCUUGG A CUCUUUUU	13761	AAAAAGAG GGCTAGCTACAACGA CCAAGAAG	34143
3086	7944	AUAUAGUA A CACCAACC	13762	GGTTGGTG GGCTAGCTACAACGA TACTATAT	34144
3092	7938	UAACACCA A CCGCCUCU	13763	AGAGGCGG GGCTAGCTACAACGA TGGTGTTA	34145
3117	7913	CAAGGUCA A UCACUUUU	13764	AAAAGTGA GGCTAGCTACAACGA TGACCTTG	34146
3129	7901	CUUUUCCG A CCGGUUCG	13765	CGAACCGG GGCTAGCTACAACGA CGGAAAAG	34147
3142	7888	UUCGAGAA A CCUCCGUU	13766	AACGGAGG GGCTAGCTACAACGA TTCTCGAA	34148
3153	7877	UCCGUUCG A CCAGCCAU	13767	ATGGCTGG GGCTAGCTACAACGA CGAACGGA	34149
3186	7844	CCCUAGAG A CUGGAUGC	13768	GCATCCAG GGCTAGCTACAACGA CTCTAGGG	34150
3191	7839	GAGACUGG A UGCCCUCC	13769	GGAGGGCA GGCTAGCTACAACGA CCAGTCTC	34151
3204	7826	CUCCAGUG A CAUUGCCU	13770	AGGCAATG GGCTAGCTACAACGA CACTGGAG	34152
3242	7788	GCUGAGCG A UCGACUUC	13771	GAAGTCGA GGCTAGCTACAACGA CGCTCAGC	34153
3246	7784	AGCGAUCG A CUUCGAUG	13772	CATCGAAG GGCTAGCTACAACGA CGATCGCT	34154
3252	7778	CGACUUCG A UGAUGGCC	13773	GGCCATCA GGCTAGCTACAACGA CGAAGTCG	34155
3255	7775	CUUCGAUG A UGGCCUCU	13774	AGAGGCCA GGCTAGCTACAACGA CATCGAAG	34156
3280	7750	CCUAGUGA A CUCUUCUU	13775	AAGAAGAG GGCTAGCTACAACGA TCACTAGG	34157
3318	7712	CUUUCCAA A CCUCUCCC	13776	GGGAGAGG GGCTAGCTACAACGA TTGGAAG	34158
3400	7630	UGUUAUGG A UAGACAUG	13777	CATGCTTA GGCTAGCTACAACGA CCATAACA	34159
3404	7626	AUGGAUAG A CAUGACAA	13778	TTGTCTAT GGCTAGCTACAACGA CTATCCAT	34160
3409	7621	UAGACAUG A CAACCAAC	13779	GTTGGTTG GGCTAGCTACAACGA CATGTCTA	34161
3412	7618	ACAUGACA A CCAACCCC	13780	GGGGTTGG GGCTAGCTACAACGA TGTCATGT	34162
3416	7614	GACAACCA A CCCCCACG	13781	CGTGGGGG GGCTAGCTACAACGA TGGTTGTC	34163
3429	7601	CACGCAUG A UGUGGCAG	13782	CTGCCACA GGCTAGCTACAACGA CATGCGTG	34164
3444	7586	AGAGUCCG A UGGCAGUU	13783	AACTGCCA GGCTAGCTACAACGA CGGACTCT	34165
3465	7565	CGUUCCAA A CAGAGCUU	13784	AAGCTCTG GGCTAGCTACAACGA TTGGAACG	34166
3510	7520	CGGCCGUG A UCAAAAUU	13785	AATTTTGA GGCTAGCTACAACGA CACGGCCG	34167
3516	7514	UGAUCAAA A UUCGGGCU	13786	AGCCGGAA GGCTAGCTACAACGA TTTGATCA	34168
3544	7486	CUUCACAG A CGGGUUCA	13787	TGAACCCG GGCTAGCTACAACGA CTGTGAAG	34169
3571	7459	AGCUAGAG A CACCAAGA	13788	TCTTGGTG GGCTAGCTACAACGA CTCTAGCT	34170
3579	7451	ACACCAAG A UCAGCAUG	13789	CATGCTGA GGCTAGCTACAACGA CTGGGTGT	34171
3588	7442	UCAGCAUG A UCUGUCCA	13790	TGGACAGA GGCTAGCTACAACGA CATGCTGA	34172
3597	7433	UCUGUCCA A CUUUCUUC	13791	GAAGAAAG GGCTAGCTACAACGA TGGACAGA	34173
3612	7418	UCUGCAUG A UGGGUGUG	13792	CACACCCA GGCTAGCTACAACGA CATGCAGA	34174
3631	7399	GCGCUCUA A UUCUGGGA	13793	TCCCAGAA GGCTAGCTACAACGA TAGAGCGC	34175
3639	7391	AUUCUGGG A CGUCCGUG	13794	CACGGACG GGCTAGCTACAACGA CCCAGAAT	34176
3654	7376	UGGCCACG A UGCCAUCC	13795	GGATGGCA GGCTAGCTACAACGA CGTGGCCA	34177
3681	7349	UCUUCAUG A UUCGGGCC	13796	GGCCGGAA GGCTAGCTACAACGA CATGAAGA	34178
3731	7299	GCUUGCCA A CCGGGAAC	13797	GTTCCCGG GGCTAGCTACAACGA TGGCAAGC	34179
3738	7292	AACCGGGA A CCAUGUAG	13798	CTACATGG GGCTAGCTACAACGA TCCCGGTT	34180
3786	7244	UUACCGUA A CGGUGAGG	13799	CCTCACCG GGCTAGCTACAACGA TACGGTAA	34181
3798	7232	UGAGGGUG A CUUGUCCC	13800	GGGACAAG GGCTAGCTACAACGA CACCCTCA	34182
3835	7195	GAGAGCCG A CACUCCAA	13801	TTGGAGTG GGCTAGCTACAACGA CGGCTCTC	34183
3843	7187	ACACUCCA A CAUCGACG	13802	CGTCGATG GGCTAGCTACAACGA TGGAGTGT	34184
3849	7181	CAACAUCG A CGAAGGGG	13803	CCCCTTCG GGCTAGCTACAACGA CGATGTTG	34185
3877	7153	GAGUGUGA A UAGUGCAC	13804	GTGCACTA GGCTAGCTACAACGA TCACACTC	34186
3894	7136	UUGCCUGA A CGUUUAUU	13805	AATAAACG GGCTAGCTACAACGA TCAGGCAA	34187
3910	7120	UGAGGUCA A UGAGGUGU	13806	ACACCTCA GGCTAGCTACAACGA TGACCTCA	34188
3921	7109	AGGUGUUG A UGUAAUCU	13807	AGATTACA GGCTAGCTACAACGA CAACACCT	34189
3926	7104	UUGAUGUA A UCUGACGU	13808	ACGTCAGA GGCTAGCTACAACGA TACATCAA	34190
3931	7099	GUAAUCUG A CGUGAUCA	13809	TGATCAGG GGCTAGCTACAACGA CAGATTAC	34191
3936	7094	CUGACGUG A UCAAAUGC	13810	GCATTTGA GGCTAGCTACAACGA CACGTCAG	34192
3941	7089	GUGAUCAA A UGCUUUAG	13811	CTAAAGCA GGCTAGCTACAACGA TTGATCAC	34193
3963	7067	GAGUGAGG A CCGCUGUU	13812	AACAGCGG GGCTAGCTACAACGA CCTCACTC	34194
3988	7042	GUACAGUG A CCAGGCUG	13813	CAGCCTGG GGCTAGCTACAACGA CACTGTAC	34195
4021	7009	CAAAAGAA A CUCUCCCA	13814	TGGGAGAG GGCTAGCTACAACGA TTCTTTTG	34196
4037	6993	AUGCUGAA A UUCUCCUU	13815	AAGGAGAA GGCTAGCTACAACGA TTCAGCAT	34197
4047	6983	UCUCCUUG A CCUCAAUU	13816	AATTGAGG GGCTAGCTACAACGA CAAGGAGA	34198
4053	6977	UGACCUCA A UUCUUUGC	13817	GCAAAGAA GGCTAGCTACAACGA TGAGGTCA	34199
4066	6964	UUGCCCAA A CAAACUGC	13818	GCAGTTTG GGCTAGCTACAACGA TTGGGCAA	34200

4070	6960	CCAAACAA A CUGCUUUAU	13819	ATAAGCAG GGCTAGCTACAACGA TTGTTTGG	34201
4103	6927	UCUAGCCA A CCAUCUC	13820	GAGATGGG GGCTAGCTACAACGA TGGCTAGA	34202
4143	6887	GGGUC AUG A CACAAAU C	13821	GATTGTGT GGCTAGCTACAACGA CATGACCC	34203
4149	6881	UGACACAA A UCAGGAAC	13822	GTTCTCTGA GGCTAGCTACAACGA TTGTGTCA	34204
4156	6874	AAUCAGGA A CACGGCUA	13823	TAGCCGTG GGCTAGCTACAACGA TCCTGATT	34205
4184	6846	GUCUGCGA A CGUUGCUU	13824	AAGCAACG GGCTAGCTACAACGA TCGCAGAC	34206
4206	6824	GCUCAGGA A UUAGCACA	13825	TGTGCTAA GGCTAGCTACAACGA TCCTGAGC	34207
4215	6815	UUAGCACA A UCAUCAAG	13826	CTTGATGA GGCTAGCTACAACGA TGTGCTAA	34208
4240	6790	GAGCAGCA A CAUUCGG	13827	CCGGAATG GGCTAGCTACAACGA TGCTGCTC	34209
4251	6779	UUCCGGCG A UCUCGUU	13828	AACGAAGA GGCTAGCTACAACGA CGCCGGAA	34210
4266	6764	UUCUGGA A CUUCAGCC	13829	GGCTGAAG GGCTAGCTACAACGA TCCAGGAA	34211
4280	6750	GCCAUCCA A CAGAAAAA	13830	TTTTTCTG GGCTAGCTACAACGA TGGATGGC	34212
4296	6734	AGGUCGCG A CUCCCAAG	13831	CTTGGGAG GGCTAGCTACAACGA CGCGACCT	34213
4305	6725	CUCCCAAG A CAGCGCCU	13832	AGGCGCTG GGCTAGCTACAACGA CTTGGGAG	34214
4319	6711	CCUCCAA A CCUAUCUU	13833	AAGATAGG GGCTAGCTACAACGA TTGGGAGG	34215
4332	6698	UCUUUCCA A UGCCCUUC	13834	GAAGGGCA GGCTAGCTACAACGA TGGAAAGA	34216
4360	6670	GAGGAAGA A UACUCCA	13835	TGGGAGTA GGCTAGCTACAACGA TCTCTCTC	34217
4384	6646	CACACUCA A UAAGGCAA	13836	TTGCCTTA GGCTAGCTACAACGA TGAGTGTG	34218
4392	6638	AUAAGGCA A UCAAGGCA	13837	TGCCTTGA GGCTAGCTACAACGA TGCCTTAT	34219
4401	6629	UCAAGGCA A UUGUCUGA	13838	TCAGACAA GGCTAGCTACAACGA TGCCTTGA	34220
4476	6554	UGGCCACA A CGUACAUG	13839	CATGTACG GGCTAGCTACAACGA TGTGGCCA	34221
4539	6491	UUCCCAGA A CCUCAUG	13840	CATTGAGG GGCTAGCTACAACGA TCTGGGAA	34222
4545	6485	GAACCUCA A UGAGCCCU	13841	AGGGCTCA GGCTAGCTACAACGA TGAGGTTT	34223
4562	6468	AUCUGAGA A CGUUUUC	13842	GGAAAACG GGCTAGCTACAACGA TCTCAGAT	34224
4588	6442	GUCCUUGA A CGCCUUA	13843	TAAAGGCG GGCTAGCTACAACGA TCAAGGAC	34225
4607	6423	GCCUGGUG A UCCGAGUA	13844	TACTCGGA GGCTAGCTACAACGA CACCAGGC	34226
4629	6401	UGGCGUCA A UCCAGCGC	13845	GCGCTGGA GGCTAGCTACAACGA TGACGCCA	34227
4647	6383	GCCUCAGA A UCUCUUCU	13846	AAGGAAGA GGCTAGCTACAACGA TCTGAGGC	34228
4671	6359	GCUUCGUG A UGACUUC	13847	GGAAGTCA GGCTAGCTACAACGA CACGAAGC	34229
4674	6356	UCGUGAUG A CUUCCACU	13848	AGTGGAAG GGCTAGCTACAACGA CATCACGA	34230
4701	6329	CUUCUAAA A UUGUGUUU	13849	AAACACAA GGCTAGCTACAACGA TTTAGAAG	34231
4718	6312	GUCCUAGG A CCAUCAA	13850	TTTGATGG GGCTAGCTACAACGA CCTAGGAC	34232
4750	6280	GUGGUAUG A CACUCCAG	13851	CTGGAGTG GGCTAGCTACAACGA CATACCAC	34233
4767	6263	CCGUGCA A CCUUGUAA	13852	TTACAAGG GGCTAGCTACAACGA TGCAGCGG	34234
4785	6245	CCAGCCAA A CUGGCAGA	13853	TCTGCCAG GGCTAGCTACAACGA TTGGCTGG	34235
4793	6237	ACUGGCAG A UCUGCAGU	13854	ACTGCAGA GGCTAGCTACAACGA CTGCCAGT	34236
4807	6223	AGUCCUCA A CAGUCCA	13855	TGGAAGTG GGCTAGCTACAACGA TGAGGACT	34237
4894	6136	UUGGUAGA A UUGAGCGA	13856	TCGCTCAA GGCTAGCTACAACGA TCTACCAA	34238
4902	6128	AUUGAGCG A UCAGUCCG	13857	CGGACTGA GGCTAGCTACAACGA CGCTCAAT	34239
4923	6107	GCAUGUUG A UGUUGUCC	13858	GGACAACA GGCTAGCTACAACGA CAACATGC	34240
4938	6092	CCAGCAUG A UUCGUGCC	13859	GGCAGGAA GGCTAGCTACAACGA CATGCTGG	34241
4955	6075	UCAGUCCA A UGGGCGAA	13860	TTCCGCCA GGCTAGCTACAACGA TGGACTGA	34242
4997	6033	CCCCAU A CAGUACUC	13861	GAGTACTG GGCTAGCTACAACGA TATGGGGG	34243
5013	6017	CAUCACCA A CUUGCGAC	13862	GTCGCAAG GGCTAGCTACAACGA TGGTGATG	34244
5020	6010	AACUUGCG A CGGAUUUC	13863	GAAATCCG GGCTAGCTACAACGA CGCAAGTT	34245
5024	6006	UGCGACGG A UUUCUACC	13864	GGTAGAAA GGCTAGCTACAACGA CCGTCGCA	34246
5034	5996	UUCUACCG A UACGUCCA	13865	TGGACGTA GGCTAGCTACAACGA CGGTAGAA	34247
5077	5953	CACUGCAG A UGGUUCUC	13866	GAGAACCA GGCTAGCTACAACGA CTGCAGTG	34248
5091	5939	CUCCCAGG A UCACUCUC	13867	GAGAGTGA GGCTAGCTACAACGA CCTGGGAG	34249
5118	5912	CUGUUAUG A UGGUUGGU	13868	ACCAACCA GGCTAGCTACAACGA CATAACAG	34250
5148	5882	GGCUGUCA A UCACCCUG	13869	CAGGGTGA GGCTAGCTACAACGA TGACAGCC	34251
5185	5845	CAUUUCAG A UAUGUCUG	13870	CAGACATA GGCTAGCTACAACGA CTGAAATG	34252
5199	5831	CUGUUGUG A UAACAAAG	13871	CTTTGTGA GGCTAGCTACAACGA CACAACAG	34253
5202	5828	UUGUGAUA A CAAAGUCC	13872	GGACTTTG GGCTAGCTACAACGA TATCACAA	34254
5213	5817	AAGUCCCA A UCAUCGUU	13873	AACGATGA GGCTAGCTACAACGA TGGGACTT	34255
5251	5779	CUCGUACG A CUUUCUGU	13874	ACAGAAAG GGCTAGCTACAACGA CGTACGAG	34256
5263	5767	UCUGUUCA A UUGGACUA	13875	TAGTCCAA GGCTAGCTACAACGA TGAACAGA	34257
5268	5762	UCAAUUGG A CUACUUC	13876	GAAAGTAG GGCTAGCTACAACGA CCAATTGA	34258
5304	5726	AAAGGGCA A UCUCAUUC	13877	GAATGAGA GGCTAGCTACAACGA TGCCCTTT	34259
5322	5708	CCAUCUUG A CACUAGGC	13878	GCCTAGTG GGCTAGCTACAACGA CAAGATGG	34260
5335	5695	AGGCACAA A CCAAACCG	13879	CGGTTTGG GGCTAGCTACAACGA TTGTGCCT	34261
5340	5690	CAAACCAA A CCGUCUUC	13880	GAAGACGG GGCTAGCTACAACGA TTGGTTTG	34262
5364	5666	AUUCUGUG A UCCAUUCG	13881	CGAATGGA GGCTAGCTACAACGA CACAGAAT	34263

5393	5637	CAAGCUCG A UCCGGGAU	13882	ATCCCGGA GGCTAGCTACAACGA CGAGCTTG	34264
5400	5630	GAUCCGGG A UCUCAGUC	13883	GACTGAGA GGCTAGCTACAACGA CCCGGATC	34265
5421	5609	AGUCGGAA A UUGGUGAA	13884	TTCACCAA GGCTAGCTACAACGA TTCCGACT	34266
5429	5601	AUUGGUGA A UUGGACUC	13885	GAGTCCAA GGCTAGCTACAACGA TCACCAAT	34267
5434	5596	UGAAUUGG A CUCUGGGA	13886	TCCCAGAG GGCTAGCTACAACGA CCAATTCA	34268
5443	5587	CUCUGGGA A UGGAUCUG	13887	CAGATCCA GGCTAGCTACAACGA TCCCAGAG	34269
5447	5583	GGGAAUGG A UCUGAAGU	13888	ACTTCAGA GGCTAGCTACAACGA CCATTCCC	34270
5479	5551	UGUCAUGA A UAUUGCCG	13889	CGGCAATA GGCTAGCTACAACGA TCATGACA	34271
5505	5525	CUAGCUCG A CCUUUGUG	13890	CACAAAGG GGCTAGCTACAACGA CGAGCTAG	34272
5517	5513	UUGUGGAA A UGUAACCU	13891	AGGTTACA GGCTAGCTACAACGA TTCCACAA	34273
5522	5508	GAAAUUGA A CCUCUUGC	13892	GCAAGAGG GGCTAGCTACAACGA TACATTTT	34274
5535	5495	UUGCUGCA A UGCUAGCU	13893	AGCTAGCA GGCTAGCTACAACGA TGCAGCAA	34275
5555	5475	UCGGUGAA A UGAGCCUC	13894	GAGGCTCA GGCTAGCTACAACGA TTCACCGA	34276
5575	5455	CAUCACGA A CAGGUUGU	13895	ACAACCTG GGCTAGCTACAACGA CTCGTATG	34277
5605	5425	GUGAGGAG A CAUCAGCC	13896	GGCTGATG GGCTAGCTACAACGA CTCCTCAC	34278
5633	5397	GUAGCAUG A CACAUGAC	13897	GTCATGTG GGCTAGCTACAACGA CATGCTAC	34279
5640	5390	GACACAUG A CAUCAACA	13898	TGTTGATG GGCTAGCTACAACGA CATGTGTC	34280
5646	5384	UGACAUCA A CAAUCUCA	13899	TGAGATTG GGCTAGCTACAACGA TGATGTCA	34281
5649	5381	CAUCAACA A UCUCAUUU	13900	AAATGAGA GGCTAGCTACAACGA TGTTGATG	34282
5683	5347	CACUGCGG A UGUCUGGU	13901	ACCAGACA GGCTAGCTACAACGA CCGCAGTG	34283
5697	5333	GGUACCGG A UGGGCAGU	13902	ACTGCCCA GGCTAGCTACAACGA CCGGTACC	34284
5739	5291	CAGCCACA A CCCUGGUU	13903	AACCAGGG GGCTAGCTACAACGA TGTGGCTG	34285
5793	5237	CCUCUUGU A UGAUCUGU	13904	ACAGATCA GGCTAGCTACAACGA CAAAGAGG	34286
5796	5234	CUUUGAUG A UCUGUGGC	13905	GCCACAGA GGCTAGCTACAACGA CATCAAAG	34287
5808	5222	GUGGCAGA A UCCUCCUU	13906	AAGGAGGA GGCTAGCTACAACGA TCTGCCAC	34288
5834	5196	GCGCCGGG A UGGAGAUC	13907	GATCTCCA GGCTAGCTACAACGA CCCGCCGC	34289
5840	5190	GGAUGGAG A UCCAGUAC	13908	GTACTGGA GGCTAGCTACAACGA CTCCATCC	34290
5853	5177	GUACAGUG A UCUGUUUU	13909	AAAACAGA GGCTAGCTACAACGA CACTGTAC	34291
5884	5146	AGGUUCGA A UCCGGCUG	13910	CAGCCGGA GGCTAGCTACAACGA TCGAACCT	34292
5895	5135	GGGCUGGG A UUGGCUCA	13911	TGAGCCAA GGCTAGCTACAACGA CCCAGCCG	34293
5958	5072	GCAUUAUG A CUCCAUG	13912	CAATGGAG GGCTAGCTACAACGA CATAATGC	34294
5979	5051	AAAGCCCA A UCACAUCA	13913	TGATGTGA GGCTAGCTACAACGA TGGGCTTT	34295
6016	5014	UGAGCCUG A UGUUCCAG	13914	CTGGAACA GGCTAGCTACAACGA CAGGCTCA	34296
6051	4979	CGGCCCCG A UUUCUCCU	13915	AGGAGAAA GGCTAGCTACAACGA CGGGGCCG	34297
6073	4957	UGUUUUGA A CACCCUG	13916	CAGGGGTG GGCTAGCTACAACGA TCAAAACA	34298
6093	4937	UCGUCUGG A CGUUCUUA	13917	TAAGAACG GGCTAGCTACAACGA CCAGACGA	34299
6102	4928	CGUUCUUA A CGUUCUUG	13918	CAAGAACG GGCTAGCTACAACGA TAAGAACG	34300
6126	4904	CCACCACA A UCAUCUGC	13919	GCAGATGA GGCTAGCTACAACGA TGTGGTGG	34301
6166	4864	GUGCUGCA A UUUCAGG	13920	CCTGGAAA GGCTAGCTACAACGA TGCAGCAC	34302
6185	4845	CCUCCGUA A CAAAGUCG	13921	CGACTTTG GGCTAGCTACAACGA TACGGAGG	34303
6194	4836	CAAAGUCG A UCCUCCUU	13922	AAGGAGGA GGCTAGCTACAACGA CGACTTTG	34304
6204	4826	CCUCCUUG A CACUGCCC	13923	GGGCAGTG GGCTAGCTACAACGA CAAGGAGG	34305
6285	4745	UGUGGAAA A CACCUUCA	13924	TGAAGGTG GGCTAGCTACAACGA TTTCCACA	34306
6294	4736	CACCUUCA A CCAUCACG	13925	CGTGATGG GGCTAGCTACAACGA TGAAGGTG	34307
6317	4713	CCUGCUUG A UAACUGCC	13926	GGCAGTTA GGCTAGCTACAACGA CAAGCAGG	34308
6320	4710	GCUUGAUA A CUGCCGAG	13927	CTCGGCAG GGCTAGCTACAACGA TATCAAGC	34309
6345	4685	GAGUCAUG A UCCUGUAG	13928	CTACAGGA GGCTAGCTACAACGA CATGACTC	34310
6354	4676	UCCUGUAG A CGCCGGUG	13929	CACCGGCG GGCTAGCTACAACGA CTACAGGA	34311
6409	4621	GUCCCACA A CACGCCUC	13930	GAGGCGTG GGCTAGCTACAACGA TGTGGGAC	34312
6448	4582	UAUCCAAA A UCCAACUA	13931	TAGTTGGA GGCTAGCTACAACGA TTTGGATA	34313
6453	4577	AAAUAUCA A CUACUGAG	13932	CTCAGTAG GGCTAGCTACAACGA TGGATTTT	34314
6468	4562	AGGGCAAG A UUGCCCAG	13933	CTGGGCAA GGCTAGCTACAACGA CTTGCCCT	34315
6492	4538	ACGCACUA A UCGCGAGA	13934	TCTCGCGA GGCTAGCTACAACGA TAGTGCGT	34316
6500	4530	AUCGCGAG A CAGACCAU	13935	ATGGTCTG GGCTAGCTACAACGA CTCGCGAT	34317
6504	4526	CGAGACAG A CCAUUCUG	13936	CAGAATGG GGCTAGCTACAACGA CTGTCTCG	34318
6542	4488	GCUCCUGG A UCAUUCAU	13937	ATGAATGA GGCTAGCTACAACGA CAGAGAGC	34319
6588	4442	GCACAUCA A CUCUUUCG	13938	CGAAAGAG GGCTAGCTACAACGA TGATGTGC	34320
6609	4421	AGCCUGUA A UUUCUGCA	13939	TGCAGAAA GGCTAGCTACAACGA TACAGGCT	34321
6633	4397	CCCAGGAA A UGUCCGCC	13940	GGCGGACA GGCTAGCTACAACGA TTCCTGGG	34322
6651	4379	UUCUCUCA A UCCACAU	13941	TATGTGGA GGCTAGCTACAACGA TGAGAGAA	34323
6667	4363	AUCUGUUG A UUUCCAG	13942	CTGGGAAA GGCTAGCTACAACGA CAACAGAT	34324
6678	4352	UCCAGAA A UCACGAAA	13943	TTTCGTGA GGCTAGCTACAACGA TTCTGGGA	34325
6694	4336	AGCAGCAA A CAUGAGCC	13944	GGCTCATG GGCTAGCTACAACGA TTGCTGCT	34326

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6708	4322	GCCCCGCG A UAGUCAUU	13945	AATGACTA GGCTAGCTACAACGA CGCGGGGC	34327
6720	4310	UCAUUGGA A UGGCCADG	13946	CATGGCCA GGCTAGCTACAACGA TCCAATGA	34328
6735	4295	UGGAGUCA A UGUCAAGC	13947	GCTTGACA GGCTAGCTACAACGA TGAATCCA	34329
6759	4271	GCCCCCG A CGAUGGCA	13948	TGCCATCG GGCTAGCTACAACGA CGGAGGGC	34330
6762	4268	CUCCGACG A UGGCAAAC	13949	GTTTGCCA GGCTAGCTACAACGA CGTCGGAG	34331
6769	4261	GAUGGCAA A CAUUAAGC	13950	GCCTAATG GGCTAGCTACAACGA TTGCCATC	34332
6780	4250	UUAGGCCG A CAGCUGUC	13951	GACAGCTG GGCTAGCTACAACGA CGGCCTAA	34333
6827	4203	CGGUUGGG A UCACAUUC	13952	GCATGTGA GGCTAGCTACAACGA CCCAACCG	34334
6837	4193	CACAUGCA A UCAGUCCA	13953	TGGACTGA GGCTAGCTACAACGA TGATGTGT	34335
6855	4175	CAGCAAGG A UCAUGGGG	13954	CCCCATGA GGCTAGCTACAACGA CCTTGCTG	34336
6902	4128	CAUAGCAG A CUUGCUC	13955	GGAGCAAG GGCTAGCTACAACGA CTGCTATG	34337
6945	4085	UCUCCUG A UCAAGCUG	13956	CAGCTTGA GGCTAGCTACAACGA CAGGGAGA	34338
6963	4067	CUAUUCCG A CCAUCAAC	13957	GTTGATGG GGCTAGCTACAACGA CGGAATAG	34339
6970	4060	GACCAUCA A CAGCAGUA	13958	TACTGCTG GGCTAGCTACAACGA TGATGGTC	34340
6995	4035	ACAUCCAG A UUCAAGCA	13959	TGCTTGAA GGCTAGCTACAACGA CTGGATGT	34341
7038	3992	GCAGCGGA A CAACCACG	13960	CGTGGTTG GGCTAGCTACAACGA TCCGCTGC	34342
7041	3989	GCGGAACA A CCACGUUU	13961	AAACGTGG GGCTAGCTACAACGA TGTTCGCG	34343
7051	3979	CACGUUUG A UGUUGUUG	13962	CAACGACA GGCTAGCTACAACGA CAAACGTG	34344
7063	3967	CGUUGUGA A UGUUAUGG	13963	CCATAACA GGCTAGCTACAACGA TCACAACG	34345
7103	3927	GCCAGUGA A UUCAACAC	13964	GTTTGAA GGCTAGCTACAACGA TCACTGGC	34346
7108	3922	UGAAUUCA A CACAUCAG	13965	CTGATGTG GGCTAGCTACAACGA TGAATTCA	34347
7119	3911	CAUCAGGG A UCUCCCAG	13966	CTGGGAGA GGCTAGCTACAACGA CCCTGATG	34348
7134	3896	AGAGCAGA A UUUGGCGG	13967	CCGCCAAA GGCTAGCTACAACGA TCTGCTCT	34349
7151	3879	GCAUCGUG A UAAGCCAU	13968	ATGGCTTA GGCTAGCTACAACGA CACGATGC	34350
7170	3860	GAAAGAAA A CAGCCGCC	13969	GGCGGCTG GGCTAGCTACAACGA TTTCTTTC	34351
7180	3850	AGCCGCCA A CAUCAACA	13970	TGTTGATG GGCTAGCTACAACGA TGGCGGCT	34352
7186	3844	CAACAUCA A CAAAUGU	13971	ACATTTTG GGCTAGCTACAACGA TGATGTTG	34353
7191	3839	UCAACAAA A UGUUCUCC	13972	GGAGAACA GGCTAGCTACAACGA TTTGTTGA	34354
7225	3805	UUUGAGAA A CGAUGCCA	13973	TGGCATCG GGCTAGCTACAACGA TTCTCAAA	34355
7228	3802	GAGAAACG A UGCCACCA	13974	TGTTGGCA GGCTAGCTACAACGA CGTTTCTC	34356
7240	3790	CACCAUAA A CACUGGUU	13975	AACCAGTG GGCTAGCTACAACGA TTATGGTG	34357
7298	3732	CCUCCCGA A UUAUAUUC	13976	GAATCTAA GGCTAGCTACAACGA TCGGGAGG	34358
7303	3727	CGAAUUAU A UUCUGCGA	13977	TCGCAGAA GGCTAGCTACAACGA CTAATTCT	34359
7329	3701	CCACCAAG A UGACAUAG	13978	CTATGTCA GGCTAGCTACAACGA CTTGGTGG	34360
7332	3698	CCAAGAUG A CAUAGCGU	13979	ACGCTATG GGCTAGCTACAACGA CATCTTGG	34361
7342	3688	AUAGCGUA A CACAUCAG	13980	CTGATGTG GGCTAGCTACAACGA TACGCTAT	34362
7359	3671	UGUAAGUA A UGCCCCCA	13981	TGGGGGCA GGCTAGCTACAACGA TCTTACA	34363
7369	3661	GCCCCCAA A CACCAGGA	13982	TCTGGTGG GGCTAGCTACAACGA TTGGGGGC	34364
7377	3653	ACACCAGG A CUAGCAGA	13983	TCTGCTAG GGCTAGCTACAACGA CCTGGTGT	34365
7389	3641	GCAGAGCA A UCAGUAUA	13984	TATACTGA GGCTAGCTACAACGA TGCTCTGC	34366
7410	3620	GCAUGCUG A UCUGGGCU	13985	AGCCAAGA GGCTAGCTACAACGA CAGCATGC	34367
7437	3593	UGCGAAGG A CCUCUUGG	13986	CCAGGAGG GGCTAGCTACAACGA CCTTCGCA	34368
7456	3574	GGCCAAGA A CACGACCA	13987	TGTTCTGT GGCTAGCTACAACGA TCTTGGCC	34369
7461	3569	AGAACACG A CCAGAAGG	13988	CCTTCTGG GGCTAGCTACAACGA CGTGTCTT	34370
7474	3556	AAGGCCCA A CUGAAAAG	13989	CTTTTCAG GGCTAGCTACAACGA TGGGCCTT	34371
7488	3542	AAGGGUCA A UCAUAUCA	13990	TGATATGA GGCTAGCTACAACGA TGACCTTT	34372
7519	3511	CACUUGUG A CUGCACGA	13991	TCGTGCAG GGCTAGCTACAACGA CACAAGTG	34373
7557	3473	GUGGUCUG A UCUCUAUA	13992	TATGGAGA GGCTAGCTACAACGA CAGACCAC	34374
7574	3456	CCAUACCA A CAGCCGCU	13993	AGCGGCTG GGCTAGCTACAACGA TGGTATGG	34375
7631	3399	CAGCACCA A UCUGUUAU	13994	ATAACAGA GGCTAGCTACAACGA TGGTGTG	34376
7642	3388	UGUUAUCA A CUUCCGC	13995	GCGGAAAG GGCTAGCTACAACGA TGATAACA	34377
7707	3323	UCAGGGUG A CCGUAGUU	13996	AACTACGG GGCTAGCTACAACGA CACCCTGA	34378
7727	3303	GGCAGUA A UCGAAGUC	13997	GACTTCGA GGCTAGCTACAACGA TACTGCCC	34379
7737	3293	CGAAGUCA A UCUCUACC	13998	GGTAGAGA GGCTAGCTACAACGA TGACTTCC	34380
7796	3234	GGUCUCG A UUGUGAUU	13999	AATCACA GGCTAGCTACAACGA CGGAGACC	34381
7802	3228	CGAUUGUG A UUGCUUCG	14000	CGAAGCAA GGCTAGCTACAACGA CACAATCG	34382
7827	3203	CCAGUGUG A CUGGUUUU	14001	AATACCAG GGCTAGCTACAACGA CACTGTGG	34383
7854	3176	UCUCAAGG A UUCAUUCG	14002	CGATGGAA GGCTAGCTACAACGA CCTTGAGA	34384
7897	3133	CGUACAUG A UUUGACUU	14003	AAGTCAAA GGCTAGCTACAACGA CATGTACG	34385
7902	3128	AUGAUUUG A CUUCACCC	14004	GGGTGAAG GGCTAGCTACAACGA CAAATCAT	34386
7914	3116	CACCCAGA A CUGCCCUU	14005	AAGGGCAG GGCTAGCTACAACGA TCTGGGTG	34387
7956	3074	UGCUUUCA A UCCAUAUG	14006	CTATTGGA GGCTAGCTACAACGA TGAAGACA	34388
7961	3069	UCAAUCCA A UAGGACAG	14007	CTGTCTTA GGCTAGCTACAACGA TGGATTGA	34389

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7966	3064	CCAAUAGG A CAGGUCAC	14008	GTGACCTG GGCTAGCTACAACGA CCTATTGG	34390
7980	3050	CACUGUGG A UCGCCAAG	14009	CTTGGCGA GGCTAGCTACAACGA CCACAGTG	34391
7998	3032	UGUUCUUG A CAGCCGUU	14010	AACGGCTG GGCTAGCTACAACGA CAAGAACA	34392
8010	3020	CGUUCUA A UGAUCUUC	14011	GAAGATCA GGCTAGCTACAACGA TGGAAACG	34393
8013	3017	UCCAAUG A UCUCGAG	14012	CTCGAAGA GGCTAGCTACAACGA CATTGGAA	34394
8049	2981	UCUCUCUG A CCUUCAGG	14013	CCTGAAGG GGCTAGCTACAACGA CAGAGAGA	34395
8059	2971	CUUCAGGA A CAUCCGAG	14014	CTCGGATG GGCTAGCTACAACGA TCCTGAAG	34396
8078	2952	CUGGUGAG A CCAAUCC	14015	GGATTGGG GGCTAGCTACAACGA CTCACCAG	34397
8083	2947	GAGACCAA A UCCAAAUA	14016	ATTTTGGG GGCTAGCTACAACGA TTGGTCTC	34398
8090	2940	AAUCCAAA A UCCUCCAC	14017	GTGGAGGA GGCTAGCTACAACGA TTTGGATT	34399
8120	2910	CAAGCGCG A UUCUGAGU	14018	ACTCAGAA GGCTAGCTACAACGA CGCGCTTG	34400
8132	2898	UGAGUCGG A CAUCCUUC	14019	AAGGAATG GGCTAGCTACAACGA CCGACTCA	34401
8150	2880	GUCUCCGG A CCAUCAAC	14020	GTTGATGG GGCTAGCTACAACGA CCGGAGAC	34402
8157	2873	GACCAUCA A CCACAAAG	14021	CTTTGTGG GGCTAGCTACAACGA TGATGGTC	34403
8191	2839	UGGUGCAA A UAAAUAUC	14022	GTATTTTA GGCTAGCTACAACGA TTGCACCA	34404
8196	2834	CAAAUAAA A UACUCUUU	14023	AAACAGTA GGCTAGCTACAACGA TTTATTTG	34405
8223	2807	UCCAGCCA A UUUCCAAU	14024	ATTGGAAG GGCTAGCTACAACGA TGGCTGGA	34406
8230	2800	AAUUUCCA A UUUUUCCG	14025	CGGAAAAA GGCTAGCTACAACGA TGGAAATT	34407
8266	2764	AGGUGCUG A CUUGUACA	14026	TGTACAAG GGCTAGCTACAACGA CAGCACCT	34408
8292	2738	GUUUCUCA A CCACGACA	14027	TGTCGTGG GGCTAGCTACAACGA TGAGAAAC	34409
8298	2732	CAACCACG A CACUAAGG	14028	CCTTAGTG GGCTAGCTACAACGA CGTGGTTG	34410
8366	2664	CACAUUUG A UGCUCCAG	14029	CTGGAGCA GGCTAGCTACAACGA CAAATGTG	34411
8382	2648	GUCUGGAA A CUGAUCGU	14030	ACGATCAG GGCTAGCTACAACGA TTCCAGAC	34412
8386	2644	GGAAACUG A UCGUAGAC	14031	GTCTACGA GGCTAGCTACAACGA CAGTTTCC	34413
8393	2637	GAUCGUAG A CCGCACAC	14032	GTGTGCGG GGCTAGCTACAACGA CTACGATC	34414
8424	2606	CUUUCUGA A UGAUCUUG	14033	CAAGATCA GGCTAGCTACAACGA TCAGAAAG	34415
8427	2603	UCUGAAUG A UCUUGGCU	14034	AGCCAAGA GGCTAGCTACAACGA CATTTCAGA	34416
8459	2571	UCAGGGUA A UACUUGUA	14035	TACAAGTA GGCTAGCTACAACGA TACCTTGA	34417
8503	2527	GUGUAUGA A CACUCCAC	14036	GTGGAGTG GGCTAGCTACAACGA TCATACAC	34418
8538	2492	GCCGGCUG A UGUCUAUG	14037	CATAGACA GGCTAGCTACAACGA CAGCCGGC	34419
8592	2438	AGAGCAGA A CUCCUCCA	14038	TGGAGGAG GGCTAGCTACAACGA TCTGCTCT	34420
8601	2429	CUCCUCCA A CUGCGAGA	14039	TCTCGCAG GGCTAGCTACAACGA TGGAGGAG	34421
8611	2419	UGCGAGAA A CGUGAGAG	14040	CTCTCAGG GGCTAGCTACAACGA TTCTCGCA	34422
8626	2404	AGCUAUGG A CCUAUCAC	14041	GTGATAGG GGCTAGCTACAACGA CCATAGCT	34423
8643	2387	GAGCAUUG A UGCCCAUC	14042	GATGGGCA GGCTAGCTACAACGA CAATGCTC	34424
8656	2374	CAUCCACA A CAGGAGAG	14043	CTCTCCTG GGCTAGCTACAACGA TGTGGATG	34425
8674	2356	CCCCAGCA A UCCUUGCG	14044	CGCAAGGA GGCTAGCTACAACGA TCTGGGGG	34426
8692	2338	UAUCCAGG A CAUGCCUC	14045	GAGGCATG GGCTAGCTACAACGA CCTGGATA	34427
8704	2326	GCCUCCGA A CAGUGAGC	14046	GCTCACTG GGCTAGCTACAACGA TCGGAGGC	34428
8716	2314	UGAGCGGA A UGCUCUUC	14047	GAGGAGCA GGCTAGCTACAACGA TCCGCTCA	34429
8728	2302	UCCUCCGA A CACUUGAU	14048	ATCAAGTG GGCTAGCTACAACGA TCGGAGGA	34430
8735	2295	AACACUUG A UGGACAGC	14049	GCTGTCCA GGCTAGCTACAACGA CAAGTGTI	34431
8739	2291	CUUGAUGG A CAGCCUUC	14050	GAAAGCTG GGCTAGCTACAACGA CCATCAAG	34432
8751	2279	CCUCCCA A CUGAGGUG	14051	CACCTCAG GGCTAGCTACAACGA TGGGAAGG	34433
8761	2269	UGAGGUGA A CACCCUUC	14052	GAGGGGTG GGCTAGCTACAACGA TCACCTCA	34434
8772	2258	CCCUCUCA A CUGAUCCA	14053	TGGATCAG GGCTAGCTACAACGA TGGAGGGG	34435
8776	2254	UCCAACUG A UCCAAAGU	14054	ACTTTGGA GGCTAGCTACAACGA CAGTTGGA	34436
8853	2177	CUUUGCCA A UGCUGCUU	14055	AAGCAGCA GGCTAGCTACAACGA TGGCAAAG	34437
8866	2164	GCUUCCAG A CUUGUGCC	14056	GGCAACAAG GGCTAGCTACAACGA CTGGAAGC	34438
8876	2154	UUGUGCCA A UGGUGAUU	14057	AATCACCA GGCTAGCTACAACGA TGGCACAA	34439
8882	2148	CAAUGGUG A UUGAUCUG	14058	CAGATCAA GGCTAGCTACAACGA CACCATTG	34440
8886	2144	GGUGAUUG A UCUGUUGU	14059	ACAACAGA GGCTAGCTACAACGA CAATCACC	34441
8941	2089	UGGUUCCA A UUCAAUCA	14060	TGATTGAA GGCTAGCTACAACGA TGGAAACA	34442
8946	2084	CCAAUUA A UCAGGACC	14061	GGTCCTGA GGCTAGCTACAACGA TGAATTGG	34443
8952	2078	CAUCCAGG A CCUAGCG	14062	CGTAAGG GGCTAGCTACAACGA CTTGATTG	34444
8979	2051	CCACUGAA A CAAAAGGG	14063	CCCTTTTG GGCTAGCTACAACGA TTCAGTGG	34445
8991	2039	AAGGGUUG A CAGUGACC	14064	GGTCACTG GGCTAGCTACAACGA CAACCCCTT	34446
8997	2033	UGACAGUG A CCAUUCUG	14065	CAGATTGG GGCTAGCTACAACGA CACTGTCA	34447
9001	2029	AGUGACCA A UCUGCCCA	14066	TGGGCAGA GGCTAGCTACAACGA TGGTCACT	34448
9028	2002	GUCGUUCA A UGAAGCCA	14067	TGGCTTCA GGCTAGCTACAACGA TGAACGAC	34449
9040	1990	AGCCACUG A CGAGAUAG	14068	CTATCTCG GGCTAGCTACAACGA CAGTGGCT	34450
9045	1985	CUGACGAG A UAGGAACU	14069	AGTTCTTA GGCTAGCTACAACGA CTCGTGAG	34451
9051	1979	AGAUAGGA A CUUUGCAA	14070	TTGCAAGG GGCTAGCTACAACGA TCCTATCT	34452

9085	1945	GUACUGCA A UUCAACA	14071	TGTTGGAA GGCTAGCTACAACGA TGCAGTAC	34453
9091	1939	CAAUUGCA A CACCACAG	14072	CTGTGGTG GGCTAGCTACAACGA TGGAAATTG	34454
9107	1923	GUGCCGUG A CCUGUGUC	14073	GACACAGG GGCTAGCTACAACGA CACGGCAC	34455
9133	1897	CCCAAGAA A CUUGAAAG	14074	CTTTCAAG GGCTAGCTACAACGA TTTCTGGG	34456
9149	1881	GCCUUUGA A CAGACGCC	14075	GGCGTCTG GGCTAGCTACAACGA TCAAAGGC	34457
9153	1877	UUGAACAG A CGCCAUAG	14076	CTATGGCG GGCTAGCTACAACGA CTGTTCAA	34458
9175	1855	UCCCUUCA A CUGCAAUU	14077	AATTGCAG GGCTAGCTACAACGA TGAAGGGA	34459
9181	1849	CAACUGCA A UUUUUGCA	14078	TGGAAAAA GGCTAGCTACAACGA TGCAGTTG	34460
9209	1821	CACUUCAA A UGACCCGA	14079	TCGGGTCA GGCTAGCTACAACGA TTGAAGTG	34461
9212	1818	UUCAAUUG A CCGACAGU	14080	ACGTCGGG GGCTAGCTACAACGA CATTTGAA	34462
9217	1813	AUGACCCG A CGUCAACU	14081	AGTTGACG GGCTAGCTACAACGA CGGGTCAT	34463
9223	1807	CGACGUCA A CUUGACAG	14082	CTGTCAAG GGCTAGCTACAACGA TGACGTGC	34464
9228	1802	UCAACUUG A CAGUGUUG	14083	CAACACTG GGCTAGCTACAACGA CAAGTTGA	34465
9244	1786	GCUUGAAA A UUCCACAG	14084	CTGTGGAA GGCTAGCTACAACGA TTTCAAGC	34466
9255	1775	CCACAGGA A UGCUCCA	14085	TGGAGCCA GGCTAGCTACAACGA TCCTGTGG	34467
9275	1755	AAAGCUUG A UGCAGAGC	14086	GCTCTGCA GGCTAGCTACAACGA CAAGCTTT	34468
9301	1729	UGAGCCCA A UGCUAUC	14087	TGATAGCA GGCTAGCTACAACGA TGGGCTCA	34469
9313	1717	UAUCACAG A CUGCUUCG	14088	CGAAGCAG GGCTAGCTACAACGA CTGTGATA	34470
9340	1690	UCCCUCAA A CUCCAUA	14089	TAATGGAG GGCTAGCTACAACGA TTGAGGAA	34471
9349	1681	CUCCAUA A CGUCUCUC	14090	GAGAGACG GGCTAGCTACAACGA TAATGGAG	34472
9412	1618	GUCCAUGA A CCACUCAC	14091	GTGAGTGG GGCTAGCTACAACGA TCATGGAC	34473
9422	1608	CACUCACG A UGACCAA	14092	TTGTGCCA GGCTAGCTACAACGA CGTAGGTG	34474
9426	1604	CACGAUGG A CCAAGAAC	14093	GTTCTTGG GGCTAGCTACAACGA CATCGTGG	34475
9433	1597	GACCAAGA A CGUCUUUG	14094	CAAAGACG GGCTAGCTACAACGA TCTTGGTC	34476
9447	1583	UUGUUGCA A CAGUCAUC	14095	GATGACTG GGCTAGCTACAACGA TGGAACAA	34477
9477	1553	UGGUGUCA A UCCUGAC	14096	GTCAGGGA GGCTAGCTACAACGA TGACACCA	34478
9484	1546	AAUCCUG A CCGUGGUU	14097	AACCACGG GGCTAGCTACAACGA CAGGGATT	34479
9558	1472	CAGGAGUG A UGCUGAAU	14098	ATTACGCA GGCTAGCTACAACGA CACTCCTG	34480
9565	1465	GAUGCUGA A UCUCUCCG	14099	CAGGGAGA GGCTAGCTACAACGA TCAGCATC	34481
9588	1442	UGGCUCCA A CCUGUGUG	14100	CACACAGG GGCTAGCTACAACGA TGGAGCCA	34482
9613	1417	UCCGUGCG A UCCACAG	14101	CTGTGGAG GGCTAGCTACAACGA CGCACGGA	34483
9636	1394	GUCCAUGG A CAAAAAUG	14102	CATTTTGG GGCTAGCTACAACGA CCATGGAC	34484
9642	1388	GGACAAAA A UGGCCACU	14103	AGTGGCCA GGCTAGCTACAACGA TTTTGTCC	34485
9660	1370	CGUACUUG A UAUUCUCU	14104	AGAGAATA GGCTAGCTACAACGA CAAGTACG	34486
9675	1355	CUUUCAAG A UGUUUCUU	14105	AAGAACCA GGCTAGCTACAACGA CTTGAAAG	34487
9709	1321	GCAGGCAA A UUUGGCGC	14106	GCGCCAAA GGCTAGCTACAACGA TGGCCTGC	34488
9726	1304	AUGUGUCA A UGCUUCCU	14107	AGGAAGCA GGCTAGCTACAACGA TGACACAT	34489
9742	1288	UUUGCCAA A UAAUCCG	14108	GCGGATTA GGCTAGCTACAACGA TTGGCAAA	34490
9745	1285	GCCAAUA A UCCGACG	14109	CTGTGGGA GGCTAGCTACAACGA CTATGGGC	34491
9863	1167	GUGGAGAG A UCGCUGAC	14110	GTCAGCGA GGCTAGCTACAACGA TCTCCAC	34492
9870	1160	GAUCGUG A CGGUAGCC	14111	GGCTACCG GGCTAGCTACAACGA CAGCGATC	34493
9881	1149	GUAGCCAA A UAGCAUA	14112	TATTGCTA GGCTAGCTACAACGA TTGGCTAC	34494
9887	1143	AAUAGCA A UACUGCG	14113	CGCAGTTA GGCTAGCTACAACGA TGCTATTT	34495
9890	1140	UAGCAUA A CUGCGGAC	14114	GTCGCGAG GGCTAGCTACAACGA TATTGCTA	34496
9897	1133	AACUGCGG A CCUCUGCC	14115	GGCAGAGG GGCTAGCTACAACGA CCGCAGTT	34497
9912	1118	CCAGGUUG A CCGCCUCC	14116	GGAGGCGG GGCTAGCTACAACGA CAACCTGG	34498
9942	1088	UCACAUUG A UGUAGGC	14117	GCCTACCA GGCTAGCTACAACGA CTATGGA	34499
9961	1069	GUCCUUG A CAUGAUAG	14118	CTATCATG GGCTAGCTACAACGA CTAAGGAC	34500
9966	1064	UAGACAUG A UAGUCACG	14119	CGTGACTA GGCTAGCTACAACGA CATGTCTA	34501
9993	1037	CUUCGAGA A CCAAUCC	14120	GGATTGGG GGCTAGCTACAACGA TCTCGAAG	34502
9998	1032	AGAACCAA A UCCACCCA	14121	TGGGTGGA GGCTAGCTACAACGA TTGGTTCT	34503
10018	1012	UGCUCAG A CACUCCUU	14122	AAGGAGTG GGCTAGCTACAACGA CTGGAGCA	34504
10090	940	CAAAAGCA A UAGCACGA	14123	TCGTGCTA GGCTAGCTACAACGA TGCTTTTG	34505
10098	932	AUAGCAGG A CAAACACA	14124	TGTGTTTG GGCTAGCTACAACGA CGTGCTAT	34506
10102	928	CACGACAA A CACAACUC	14125	GAGTTGTG GGCTAGCTACAACGA TTGTCGTG	34507
10107	923	CAAAACACA A CUCUCUGC	14126	GCAGAGAG GGCTAGCTACAACGA TGTGTTTG	34508
10139	891	AGCAUCCA A CCAUGAC	14127	GTCATTGG GGCTAGCTACAACGA TGGATGCT	34509
10143	887	UCCAACCA A UGACGGCU	14128	AGCCGTCA GGCTAGCTACAACGA TGGTTGGA	34510
10146	884	AACCAUUG A CGGUGGCC	14129	GGCAGCCG GGCTAGCTACAACGA CATTGGTT	34511
10182	848	UCCUCAAG A UCCAUGAU	14130	ATCATGGA GGCTAGCTACAACGA CTGAGGA	34512
10189	841	GAUCCAUG A UUCUGUUU	14131	AAACAGAA GGCTAGCTACAACGA CATGGATC	34513
10205	825	UUUACCAA A UACCUUGU	14132	ACAAGGTA GGCTAGCTACAACGA TTGGTAAA	34514
10288	742	UGUCAGUG A CCUCCGAC	14133	GTCGGAGG GGCTAGCTACAACGA CACTGACA	34515

10295	735	GACCUCG A CUGCGUCU	14134	AGACGCAG GGCTAGCTACAACGA CGGAGGTC	34516
10338	692	CAUACCUG A CGUAGACU	14135	AGTCTACG GGCTAGCTACAACGA CAGGTATG	34517
10344	686	UGACGUAG A CUGCUGAC	14136	GTCAGCAG GGCTAGCTACAACGA CTACGTCA	34518
10351	679	GACUGCUG A CUUUGUGC	14137	GCACAAAG GGCTAGCTACAACGA CAGCAGTC	34519
10364	666	GUGCACCA A CAGUCGAU	14138	ATCGACTG GGCTAGCTACAACGA TGGTGAC	34520
10371	659	AACAGUCG A UGUCUUCU	14139	AGAAGACA GGCTAGCTACAACGA CGACTGTT	34521
10382	648	UCUUCUGG A UCAUUACC	14140	GGTAATGA GGCTAGCTACAACGA CCAGAAGA	34522
10396	634	ACCAGCCG A CAGCACUG	14141	CAGTGCTG GGCTAGCTACAACGA CGGCTGGT	34523
10419	611	CAUAAGUG A UAGUAUCA	14142	TGATACTA GGCTAGCTACAACGA CACTTATG	34524
10458	572	UUGCUCUG A CAAUGCAU	14143	ATGCATTG GGCTAGCTACAACGA CAGAGCAA	34525
10461	569	CUCUGACA A UGCAUAGG	14144	CCTATGCA GGCTAGCTACAACGA TGTCAAG	34526
10491	539	CUGUUGGA A UCGUGAUG	14145	CATCACGA GGCTAGCTACAACGA TCCAACAG	34527
10497	533	GAAUCGUG A UGACAUCU	14146	AGATGTCA GGCTAGCTACAACGA CACGATTG	34528
10500	530	UCGUGAUG A CAUCUGUG	14147	CACAGATG GGCTAGCTACAACGA CATCAGCA	34529
10509	521	CAUCUGUG A CGUCAGUA	14148	TACTGACG GGCTAGCTACAACGA CACAGATG	34530
10563	467	AGAGGGUA A CUGCUCCU	14149	AGGAGCAG GGCTAGCTACAACGA TACCCTCT	34531
10581	449	CGCUGGCG A UCAGGCCA	14150	TGGCCTGA GGCTAGCTACAACGA CGCCAGCG	34532
10590	440	UCAGGCCA A UCAUGACU	14151	AGTCATGA GGCTAGCTACAACGA TGGCCTGA	34533
10596	434	CAAUCAUG A CUGCAAUU	14152	AATTGCAG GGCTAGCTACAACGA CATGATTG	34534
10602	428	UGACUGCA A UUCCGGUC	14153	GACCGGAA GGCTAGCTACAACGA TGCAGTCA	34535
10646	384	CUCCGCCG A UUGAUAGC	14154	GCTATCAA GGCTAGCTACAACGA CGGCGGAG	34536
10650	380	GCCGAUUG A UAGCACUG	14155	CAGTGCTA GGCTAGCTACAACGA CAATCGGC	34537
10685	345	UUCUUAUA A CUCAGAAG	14156	CTTCTGAG GGCTAGCTACAACGA TTTAAGAA	34538
10733	297	CUCCAUCG A UCCAGCAC	14157	GTGCTGGA GGCTAGCTACAACGA CGATGGAG	34539
10758	272	UCGGAGCA A UUGCUGUG	14158	CACAGCAA GGCTAGCTACAACGA TGCTCCGA	34540
10768	262	UGCUGUGA A CCUGAAGA	14159	TCTTCAGG GGCTAGCTACAACGA TCACAGCA	34541
10777	253	CCUGAAGA A CGCCAAGA	14160	TCTTGGCG GGCTAGCTACAACGA TCTTCAGG	34542
10792	238	GAGAGCCA A CACAAAU	14161	GATTGTGT GGCTAGCTACAACGA TGGCTCTC	34543
10798	232	CAACACAA A UCGUAUUG	14162	CAATACGA GGCTAGCTACAACGA TTGTGTTG	34544
10821	209	UGCCGUCG A UCAGGCUC	14163	GAGCCTGA GGCTAGCTACAACGA CGACGGCA	34545
10831	199	CAGGCUCA A CAUAGCCC	14164	GGGCTATG GGCTAGCTACAACGA TGAGCCTG	34546
10851	179	UCAGUCCA A UCAAGGAC	14165	GTCCTTGA GGCTAGCTACAACGA TGGACTGA	34547
10858	172	AAUCAAGG A CAACACGC	14166	GCGTGTTG GGCTAGCTACAACGA CCTTGATT	34548
10861	169	CAAGGACA A CACGCGGG	14167	CCCGCGTG GGCTAGCTACAACGA TGTCTTTG	34549
10893	137	GCAUAUUG A CAGCCCGG	14168	CCGGGCTG GGCTAGCTACAACGA CAATATGC	34550
10930	100	UUUCUAG A CAUCGAGA	14169	TCTCGATG GGCTAGCTACAACGA CTAAGAAA	34551
10938	92	ACAUCGAG A UCUCUGUG	14170	CACGAAGA GGCTAGCTACAACGA CTCGATGT	34552
10954	76	GCUAAGAA A CAGCUCGC	14171	GCGAGCTG GGCTAGCTACAACGA TTCTTAGC	34553
10972	58	CUGUGUUA A UUGUUGUU	14172	AACAACAA GGCTAGCTACAACGA TAACACAG	34554
10982	48	UGUUGUUA A UCCUCACA	14173	TGTGAGGA GGCTAGCTACAACGA TAACAACA	34555
10992	38	CCUCACAA A CACUACUA	14174	TAGTAGTG GGCTAGCTACAACGA TTGTGAGG	34556

Input Sequence = AF196835_rc. Cut Site = R/Y

Arm Length = 8. Core Sequence = GGCTAGCTACAACGA

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XII

Table XII: WNV minus strand Amberzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
10	11020	GAUCCUGU G UUCUGCA	12272	UGCGAGAA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACAGGAUC	34557
16	11014	GUUUUCU G CACCACCA	12273	UGGUGGUG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG GAGAACAC	34558
25	11005	CACCACCA G CCACCAU	12274	AAUGGUGG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG UGGUGGUG	34559
34	10996	CCACCAU G UCGGCGCA	12275	UGCGCCGA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AAUGGUGG	34560
38	10992	CAUUGUG G CGCACUGU	12276	ACAGUGCG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CGACAAUG	34561
40	10990	UUGUCGGC G CACUGUGC	12277	GCACAGUG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG GCCACAA	34562
45	10985	GGCGACU G UCCGUGU	12278	ACACGGCA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AGUGCGCC	34563
47	10983	CGCACUGU G CCGUGUG	12279	CCACACGG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACAGUGCG	34564
50	10980	ACUGUGC G UGUGGUG	12280	CAGCCACA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG GGCACAGU	34565
52	10978	UGUGCCGU G UGGCUGGU	12281	ACCAGCCA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACGGCACA	34566
55	10975	CGCGUGU G CUGGUGU	12282	ACAACCAG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CACACGGC	34567
59	10971	UGUGGUG G UUGUGCAG	12283	CUGCACAA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CAGCCACA	34568
62	10968	GGCUGGU G UGCAGAGC	12284	GUCUGCA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AACACAGC	34569
64	10966	CUGGUGU G CAGAGCAG	12285	CUGCUCUG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACAACCAG	34570
69	10961	UGUGCAGA G CAGAAAU	12286	AUCUUCUG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG UCUGCACA	34571
84	10946	AUCUCCUA G UCUAUCU	12287	GGGAUAGA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG UAGGAGAU	34572
95	10935	UAUCCAG G UGUCAUA	12288	UAUUGACA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CUGGGAUA	34573
97	10933	UCCAGU G UCAUAUG	12289	CAUAUUGA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACCUGGGA	34574
105	10925	GUCAUAU G CUGUUUG	12290	CAAAACAG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AUUAUUGAC	34575
108	10922	AAUAUGU G UUUUGUG	12291	CAACAAA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AGCAUAU	34576
113	10917	GCUGUUU G UUGUGGUG	12292	CACCACAA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AAAACAGC	34577
116	10914	GUUUUGU G UGGUGUU	12293	AAACACCA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AACAAAAC	34578
119	10911	UUGUUUG G UGUUUUG	12294	ACAAAACA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CACAACAA	34579
121	10909	GUUGUGU G UUUUGUG	12295	CCACAAA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACCACAAC	34580
126	10904	GGUUUUU G UGGACGG	12296	CCGUGCCA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG AAAACACC	34581
129	10901	GUUUUGU G CACGGGU	12297	ACCCGUG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CACAAAAC	34582
136	10894	GGCACGG G UCUCACU	12298	AGUGGAGA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CCCGUGCC	34583
153	10877	AACCUUA G UCUUCCC	12299	GGGAAGGA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG UAGAGGUU	34584
172	10858	GACCUUA G CUUCAGU	12300	GACUAG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG UGUAGGUC	34585
178	10852	CAGCUUA G UCAGGUG	12301	CAGCCUA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG UGAAGCTG	34586
183	10847	UCAGUCAG G CUGGGCG	12302	CGGCCAG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CUGACUGA	34587
188	10842	CAGGUCG G CCGUCAC	12303	GUGCACGG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CCAGCCUG	34588
191	10839	GCUGGCC G UGCACUU	12304	AAAGUCA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG GGCCAGC	34589
193	10837	UGGCGGU G CACUUNA	12305	UUAAGUG GGAGGAAAACUCCUUAAGGACAUCGUCCGGG ACGGCCCA	34590
205	10825	UUAAACC G CGGGGUC	12306	AGACCCC GGAGGAAAACUCCUUAAGGACAUCGUCCGGG GGUUAAA	34591
210	10820	ACCGCGG G UCUCUCU	12307	AGAGGAGA GGAGGAAAACUCCUUAAGGACAUCGUCCGGG CCCGCGU	34592

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227	10803	AACCUCUA	G	UCCUUUCG	12308	CGAAAGGA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UAGAGGUU	34593
235	10795	GUCCUUC	G	CCUUGUU	12309	AACAGGG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GAAAGGAC	34594
241	10789	UGCCUUG	G	UUAACACC	12310	GGUGUUA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CAGGGCGA	34595
259	10771	UUAACGG	G	CUAGGGC	12311	GGCCCUAG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCCGGUA	34596
265	10765	GGGCUAG	G	CGCGUGG	12312	CCACGCG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCUAGCCC	34597
268	10762	CUAGGGC	G	CGUGGGC	12313	GCCCCAC	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GGCCCUAG	34598
270	10760	AGGGCCG	G	UGGGGCU	12314	ACGCCCA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GCGGCCU	34599
275	10755	CGGUGGG	G	CGUUGGU	12315	AACCAAC	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCACGCG	34600
277	10753	CGUGGGC	G	UUGGUUU	12316	CAAAACC	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GCCCCAC	34601
281	10749	GGGCUUG	G	UUUGCCU	12317	AAGGCAA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CAACGCC	34602
285	10745	GUUGGUU	G	CCUUGUU	12318	AACAAGG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	AAACCAAC	34603
291	10739	UUGCCUU	G	UUAACCA	12319	UGGUUUA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	AAAGGCAA	34604
300	10730	UUAACCA	G	UCCUCCU	12320	CAGAGGA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UGGUUUA	34605
311	10719	CUCCUGG	G	CACUAUC	12321	CGUAGUG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCCAGGAG	34606
319	10711	GCACUAC	G	CAGACUG	12322	GCAUCUG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GAUAGUGC	34607
326	10704	CGCAGAC	G	CACUCUC	12323	GGAGAGU	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	AGUCUGCG	34608
335	10695	CACUCUC	G	CAGAGUAG	12324	CUACUCU	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GGAGAGUG	34609
340	10690	UCGCGAG	G	UAGCACG	12325	GCUGGCUA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UCUGCGG	34610
343	10687	GCAGGUA	G	CAGCCGU	12326	ACGGCGU	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UACUCUG	34611
347	10683	AGUAGAC	G	CGUAGGG	12327	CGCUACG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GUGCUACU	34612
350	10680	AGCACGC	G	UAGCGUG	12328	CCACGCUA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GGCGUGCU	34613
353	10677	AGCCGUA	G	CGUGGUCU	12329	AGACCAC	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UACGGCGU	34614
355	10675	GCGUAGC	G	UGGUCUGA	12330	UCAGACCA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CUACGGC	34615
358	10672	GUAGCGU	G	UCUGACAU	12331	AUGUCAG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CACGCUAC	34616
370	10660	GACUUGG	G	CUUGAAG	12332	CUUCAAG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCAAUGUC	34617
378	10652	GUUUGAA	G	UUAACAA	12333	UGUUGUAA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UUCAAGC	34618
388	10642	UUAACAU	G	UGGGGUCC	12334	GGACCCA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	AUGUUGUA	34619
393	10637	CAUGGGG	G	UCCUCCU	12335	AAGGAGG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCCACAU	34620
410	10620	CCGAGAC	G	UUCUGAG	12336	CCUCAGAA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CGUCUCG	34621
419	10611	UUCUGAG	G	CUUACAU	12337	CAUGUAG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCUCAGAA	34622
437	10593	AUCACUUC	G	CGGCUUG	12338	CAAAGCC	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GAAGUGAU	34623
440	10590	ACUUCGG	G	CUUUGUC	12339	GAACAAAG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CGCGAAGU	34624
445	10585	GCGGCUU	G	UUCACCA	12340	UGGGUGAA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	AAAGCGC	34625
454	10576	UUCACCA	G	UCCUCCU	12341	CAGAGGA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UGGGUGAA	34626
465	10565	CUCCUGG	G	UUGAGUC	12342	CGACUCA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CCCAGGAG	34627
470	10560	GGGUGUA	G	UCGCAGC	12343	GCCUCCGA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UCAACCCC	34628
473	10557	GUUGAGU	G	CAGGCAG	12344	GCUGCCUG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GACUCAAC	34629
477	10553	AGUCGCAG	G	CAGCACG	12345	CGGUGCUG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	CUGCGACU	34630
480	10550	CGCAGGCA	G	CACCGUCU	12346	AGACGGUG	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	UGCCUGCG	34631
485	10545	GCAGCAC	G	UCUACUA	12347	UGAGUAGA	GGAGGAAACUCCCUUUAAGGACAUCGUCGCGG	GGUGUCG	34632

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501	10529	AACUCCG G	UGGGGGA	12348	UCCCGCA	GGAGGAAACUCCUUAAGGACAUCCGCGG	CGGAAGUU	34633
504	10526	UUCGGUG G	CGGAACT	12349	AGUCCCG	GGAGGAAACUCCUUAAGGACAUCCGCGG	CACCGGA	34634
518	10512	ACUCCCG G	CCUGACU	12350	AAGUCAG	GGAGGAAACUCCUUAAGGACAUCCGCGG	CGGGAAGU	34635
595	10435	ACUUUAV G	CAUACUUA	12351	UAGAUAU	GGAGGAAACUCCUUAAGGACAUCCGCGG	AUAAAAGU	34636
608	10422	CUUAUAU G	UCUAUUA	12352	UAAAAGA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AUAUAAG	34637
637	10393	UAUCUAC G	UACUGUG	12353	ACACAUA	GGAGGAAACUCCUUAAGGACAUCCGCGG	UGUAGUA	34638
642	10388	ACAGUAC G	UGUCCUA	12354	UGAGGAC	GGAGGAAACUCCUUAAGGACAUCCGCGG	AGUACUGU	34639
644	10386	AGUACUG G	UCCUCAAC	12355	GUUGAGG	GGAGGAAACUCCUUAAGGACAUCCGCGG	ACAGUACU	34640
657	10373	CAACAAA G	UUGUGUCU	12356	AGACACAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	UUUGGUUG	34641
660	10370	CCAAAGU G	UGUCUUA	12357	UGAAGAC	GGAGGAAACUCCUUAAGGACAUCCGCGG	AACTUUUG	34642
662	10368	AAAGUUG G	UCUUAUA	12358	UAUGAAG	GGAGGAAACUCCUUAAGGACAUCCGCGG	ACAACUUA	34643
679	10351	UCUCUUA G	UGAACUA	12359	UGAGUUA	GGAGGAAACUCCUUAAGGACAUCCGCGG	UAAAGAGA	34644
689	10341	GAACUAU G	UAAUCCAC	12360	GUUGAUUA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AUGAGUUC	34645
720	10310	CGAUAUU G	UCUCGACU	12361	AGUCAGAG	GGAGGAAACUCCUUAAGGACAUCCGCGG	AAUCAUCG	34646
731	10299	CGUAUUG G	UUGAUAGC	12362	GCUAUCAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	CAAGUCAG	34647
738	10292	GGUUGAU G	CCACUUGG	12363	CCAGGUG	GGAGGAAACUCCUUAAGGACAUCCGCGG	UAUCAACC	34648
749	10281	ACCUGAU G	UUUUCUGC	12364	GCAGAAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AUCAGGU	34649
756	10274	UGUUUCU G	CCCACGUG	12365	CACGUGG	GGAGGAAACUCCUUAAGGACAUCCGCGG	AGAAAACA	34650
762	10268	CUGCCAC G	UGGUCUGG	12366	CCGAGCCA	GGAGGAAACUCCUUAAGGACAUCCGCGG	GUGGCGAG	34651
765	10265	CCCACUG G	CUUGGGCU	12367	AGCCCGAG	GGAGGAAACUCCUUAAGGACAUCCGCGG	CACGUGG	34652
771	10259	UGGUCUG G	CUUUGUG	12368	CACAAGAG	GGAGGAAACUCCUUAAGGACAUCCGCGG	CCGAGCCA	34653
777	10253	GGGUCUU G	UGCCAAUC	12369	GAUUGGCA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AAGAGCCC	34654
779	10251	GCUCUUG G	CCAAUCAG	12370	CUUAUUG	GGAGGAAACUCCUUAAGGACAUCCGCGG	ACAAGAC	34655
788	10242	CCAAUCAG G	CCGCCACA	12371	UGUGGCAG	GGAGGAAACUCCUUAAGGACAUCCGCGG	CUGAUUG	34656
791	10239	AUCAGGU G	CCACACCA	12372	UGUGUGUG	GGAGGAAACUCCUUAAGGACAUCCGCGG	AGCCUGAU	34657
803	10227	CACCAGU G	UCCUCUG	12373	CGAGAGGA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AUCUGGUG	34658
811	10219	GUCCUCU G	UUUUCUG	12374	CAGGAAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	GAGAGGAC	34659
830	10200	UAUGGAC G	UCACUCCA	12375	UGGAGUGA	GGAGGAAACUCCUUAAGGACAUCCGCGG	GUCCAUUA	34660
852	10178	CCACUGG G	UUUUGUCU	12376	AGACAAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	CCCAGUGG	34661
857	10173	GGGUUUU G	UCUCCAU	12377	AUGGAAGA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AAAACCCC	34662
893	10137	CAACACG G	UCCAGAC	12378	GUUGGAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	CGUGUUUG	34663
911	10119	UCCAACU G	UCCUCUGU	12379	ACAGAGGA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AGUUUGGA	34664
918	10112	UGUCCUU G	UUGUCAUC	12380	GAUGACAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AGAGGACA	34665
921	10109	CCUCUGU G	UCAUCCAC	12381	GUGGAUGA	GGAGGAAACUCCUUAAGGACAUCCGCGG	AACAGAGG	34666
939	10091	GUCCUCU G	CAUGGAUG	12382	CAUCCAUG	GGAGGAAACUCCUUAAGGACAUCCGCGG	AGGAGGAG	34667
954	10076	UGGACCA G	UGGUUCUU	12383	AAGAACA	GGAGGAAACUCCUUAAGGACAUCCGCGG	GUGGUCCA	34668
957	10073	ACCACUG G	UUCUUCGG	12384	CGGAAGAA	GGAGGAAACUCCUUAAGGACAUCCGCGG	CACGUGGU	34669
966	10064	UUCUCCG G	UAGGGACC	12385	GGUCCCUA	GGAGGAAACUCCUUAAGGACAUCCGCGG	CGGAAGAA	34670
990	10040	CAGGACA G	CGAGCAA	12386	UDGUCCG	GGAGGAAACUCCUUAAGGACAUCCGCGG	UGUCCUG	34671
995	10035	ACAGCGA G	CAAUUGC	12387	GCCAUUUG	GGAGGAAACUCCUUAAGGACAUCCGCGG	UCCGCUUG	34672

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1002	10028	AGCAAAUG G CGUUGGCC	12388	GGCCAACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAUUGUCU	34673
1004	10026	CAAAUGGC G UUGGCCAU	12389	AUGGCCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCCAUUUG	34674
1008	10022	UGCGUUG G CCAUGAGC	12390	GCUCAUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAACGCCA	34675
1015	10015	GGCCAUGA G CCGCAGGU	12391	ACUUGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCAUGGCC	34676
1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCTUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGCUCAUG	34677
1022	10008	AGCGGCAG G UCUCUUCU	12393	AGAAAGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUGCGGCU	34678
1031	9999	UCUCUUCU G UGGAAGUA	12394	UACUCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGAAGAGA	34679
1037	9993	GUUGGAA G UACAGAAG	12395	CUUCUGUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCACACG	34680
1045	9985	UACAGAA G CAGCCACA	12396	UGUGGUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUCUGUAC	34681
1048	9982	CAGAAGCA G CCACAUCU	12397	AGAUGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGCUUCUG	34682
1059	9971	ACAUCUGG G CAUAAGAC	12398	GUCUUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCAGAUGU	34683
1071	9959	AAGACUUA G CCAGACAA	12399	UUGUCUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAGUCUU	34684
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUGUCUGG	34685
1083	9947	GACAAGCA G UGUCGCGG	12401	CCGCGACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGCUUUGC	34686
1085	9945	CAAGCAGU G UGCGGAC	12402	GUCCGCGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUGCUUG	34687
1088	9942	GAGUGUC G CGGACGUU	12403	AACGUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GACACUGC	34688
1094	9936	UGCGGAC G UUCCAUCC	12404	GGAUUGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUCCGCGA	34689
1104	9926	UCCAUCG G CCCCUGGA	12405	UCCAGGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGGAUGGA	34690
1118	9912	GGAGUAU G CGAGUCU	12406	AGAGUCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUAUCUCC	34691
1122	9908	AUAUGCA G CUCUGCU	12407	AGGCAGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCGCAUUA	34692
1127	9903	CGAGCUCU G CCVACCAA	12408	UUGUAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGAGCUCG	34693
1144	9886	UUAUCU G UCCUCGGC	12409	GCCGAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGGAUGAA	34694
1151	9879	UGUCCUG G CAUGGAC	12410	GUUCCAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGAGGACA	34695
1165	9865	AACCACCA G UGUUCUUC	12411	GAAGAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGUGUUA	34696
1167	9863	CCACCAGU G UUCUCCA	12412	UGGAAGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUGGUGG	34697
1194	9836	UCAUUA G UGAAUUGG	12413	CCAUUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGAAUUUA	34698
1202	9828	GUGAAUUG G UUUAGCA	12414	UGCUCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAUUCAC	34699
1208	9822	UGGUUUGA G CAAAUGG	12415	CCAUUUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCAAAACA	34700
1222	9808	UGGAACCU G CUGCCAU	12416	AUUGGCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGGUUCCA	34701
1225	9805	AACCUGCU G CCAAUCAU	12417	AUGAUUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCAGUUU	34702
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGUCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGAUGGU	34703
1249	9781	AGUUGAGG G UUUCCACU	12419	AGUGGAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGUCAACU	34704
1265	9765	UCUUGGAU G UCUTUGG	12420	CGCAAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUCCAAGA	34705
1271	9759	AUGUCUUU G CGAACCUU	12421	AAAGUUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAAGACAU	34706
1287	9743	UUGACAU G CAUUGAGG	12422	CCUCAUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUGUCAA	34707
1298	9732	UUGAGGAA G UGGAGCGA	12423	UCCGUCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUCUCAA	34708
1303	9727	GAUGUGA G CGAGGUGG	12424	CCACUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCACUUC	34709
1308	9722	GGAGCGAG G UGGCAAG	12425	CUUUGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCGCUCC	34710
1311	9719	GCGAGGUG G CAAAGCGA	12426	UCGCUUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACUCCGC	34711
1316	9714	GUGGCANA G CGAUUCUC	12427	GACGAUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUUGCCAC	34712

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1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCUGGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG GAUCGCUU	34713
1330	9700	GUCCAGGG G CUUUAACA	12429	UGGUAAAG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CCCUGGAC	34714
1343	9687	ACCACACA G UCAUCUCG	12430	GGAGAUGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGUUGUGU	34715
1359	9671	CACUGACA G CCAUGCGG	12431	CCGCAUGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGUCCAGUG	34716
1364	9666	ACAGCCAU G CGGUGAG	12432	CUCAGCCG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG AUGGCUUG	34717
1367	9663	GCAUGCG G CUGAGUCU	12433	AGACUCAG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CGCAUGGC	34718
1372	9658	GCGGCUGA G UCUUUCUU	12434	AAGAAGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UCAGCCGC	34719
1396	9634	CUCAAACA G CCAGGUCC	12435	GGACUUGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGUUUGAG	34720
1401	9629	ACAGCCAG G UCCUGACU	12436	AGUCAGGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CUGGCUUG	34721
1414	9616	GACUUGG G UCCUUUCC	12437	GGAAAGGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CCAAAGUC	34722
1428	9602	UCCUUUU G UGAGUUUC	12438	GAACUCA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG AAAAGGGA	34723
1432	9598	UUUUGUA G UUUCUCCA	12439	UGGAGAA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UCACAAAA	34724
1451	9579	UCAUCUGG G CCAAUAC	12440	GUGAUUGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CCAGAUGA	34725
1486	9544	CCUCACCA G CUGGACGG	12441	CCGUCCAG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGGUGAGG	34726
1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCTGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CGUCCAGC	34727
1499	9531	ACGGCCAG G UUGGUGAA	12443	UUCACCAA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CUGGCCGU	34728
1503	9527	CCAGGUUG G UGAAGUG	12444	CACUUUCA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CAACCUUG	34729
1509	9521	UGGUGAA G UGUUAGG	12445	CCUAAACA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UUUACCCA	34730
1511	9519	GUGAAGU G UUUAGGGC	12446	GCCUAAA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG ACUUUCAC	34731
1518	9512	UGUUAGG G CGUAGGUG	12447	CACCUACG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CUUAAACA	34732
1520	9510	UUUAGGG G UAGGUGAC	12448	GUCACCUA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG GCCCUAAA	34733
1524	9506	GGGCGUAG G UGACAAU	12449	AGUUGUCA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CUACGCC	34734
1534	9496	GACAAUU G UCCACUCC	12450	GGAGUGGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG AAGUUGUC	34735
1578	9452	CCAUGAG G UUCUCCA	12451	UGGAAGAA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CGUCAUGG	34736
1590	9440	UUCCAUA G CAGCCGGG	12452	CCCGGCUG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGAUGGAA	34737
1593	9437	CAUCAGCA G CCGGGCGC	12453	GCGCCCGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGCUGAUG	34738
1598	9432	GCAGCCGG G CGCAUCAC	12454	GUGAUGCG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CCGGCUGC	34739
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGUGAUG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG GCCCGGCU	34740
1619	9411	ACAAUUU G UGACGAUA	12456	UAUCGUCA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG AAAGUUGU	34741
1629	9401	GACGAUAG G UGAGCUCA	12457	UGAGUCUA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CUUUCGUC	34742
1633	9397	AUAGGUGA G CUCAAUGA	12458	UCAUUGAG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UCACCUAU	34743
1644	9386	CAAUGAUG G CCUGGCCA	12459	UGCCAGGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CAUCAUUG	34744
1650	9380	UGGCCUUG G CAGACGCG	12460	GCGUUCUG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG CAGGGCCA	34745
1657	9373	GCAAGAG G CCGAUGUU	12461	AACAUUGG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG GUCUUGCC	34746
1663	9367	AGGCCGAU G UUCGCCAU	12462	AUGGGGAA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG AUCGGCGU	34747
1675	9355	CCCAUCAA G CAGCUCAA	12463	UUGAGCUU GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UUGAUGGG	34748
1678	9352	AUCAAGCA G CUCAAGCA	12464	UGCUUUGAG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UGCUUGAU	34749
1684	9346	CAGCUCAA G CACCUUAG	12465	CUAAGGUG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UUGAGCUUG	34750
1692	9338	GCACCUUA G CUUCAUUU	12466	AAAUAGAG GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UAAGGUGC	34751
1706	9324	UUUUCCAA G UCAGCUUU	12467	AGAGCUGA GGAGAAAACUCCUUCAAGGACAUCGUCCGGG UUGGAAAA	34752

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1710	9320	CCAAGUCA	G	CUCUCGUG	12468	CACGAGAG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UGACUUGG	34753
1716	9314	CAGCUCUC	G	UGAUGCGG	12469	CCGCAUCA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	GAGAGCUG	34754
1721	9309	CUCGUGAU	G	CGGGUGUC	12470	GACACCCG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AUCACGAG	34755
1725	9305	UGAUGCGG	G	UGUCCGAG	12471	CUGGGACA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CCGCAUCA	34756
1727	9303	AUGCGGGU	G	UCCGAGCC	12472	GGCUGGGA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	ACCCGCAU	34757
1733	9297	GUGUCCCA	G	CCAGCUGU	12473	ACAGCUGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UGGGACAC	34758
1737	9293	CCCAGCCA	G	CUGUGUCA	12474	UGACACAG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UGGCUGGG	34759
1740	9290	AGCCAGCU	G	UGUCAUCA	12475	UGAUGACA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AGCUGGCU	34760
1742	9288	CCAGCUGU	G	UCAUCAGC	12476	GCUGAUGA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	ACAGCUGG	34761
1749	9281	UGCAUCA	G	CAUAGAUC	12477	GAUCUAUG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UGAUGACA	34762
1760	9270	UAGAUCUU	G	CCCCCAGG	12478	CCUGGGGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AAGAUCUA	34763
1768	9262	GCCCCCAG	G	CCGGGUGC	12479	GCACCCCG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CUGGGGGC	34764
1773	9257	CAGGCCGG	G	UGCCAAUC	12480	AGUUGGCA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CCGGCCUG	34765
1775	9255	GGCCGGGU	G	CCAAUCUC	12481	GAAUUGGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	ACCCGGCC	34766
1786	9244	AACUUCAC	G	CAGGAUGU	12482	ACAUCUUG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	GUGAAGUU	34767
1793	9237	CGCAGGAU	G	UAACCCAG	12483	CUGGGUUA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AUCUGCGG	34768
1801	9229	GUAAACCA	G	UUUUUGGA	12484	UCCAAAAA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UGGGUUAC	34769
1811	9219	UUUUGAG	G	CCCAAGCC	12485	GGCUUGGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CUCCAAAA	34770
1817	9213	AGCCCAAG	G	CCUCCGAC	12486	GUCGAGGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UUGSGCCU	34771
1838	9192	CCUCCUGA	G	UUCUUCUC	12487	AGAAAGAA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UCAGGAGG	34772
1852	9178	UCUUCCAA	G	CCAGUGGU	12488	ACCACUUG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UUGGAAAG	34773
1856	9174	CCAAGCCA	G	UGGUCUUC	12489	GAAACCCA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UGGCUUUG	34774
1859	9171	AGCCAGUG	G	UCUUCUAU	12490	AAUGAAGA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CACUGGCU	34775
1881	9149	AACCCAGA	G	CCUCGAAC	12491	GUUCGAGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UCUGGGUU	34776
1898	9132	UCCAGAAA	G	CGAGCUCC	12492	GGAGCUCG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UUUCUGGA	34777
1902	9128	GAAAGCGA	G	CUCCGAGC	12493	GCUCGGAG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UCGCUUUU	34778
1909	9121	AGCUCGGA	G	CCACAUGA	12494	UCAUGUGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UCGGAGCU	34779
1926	9104	ACCAAAUG	G	CUCUGCUU	12495	AAGCAGAG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CAUUTUGU	34780
1931	9099	AUGGCUUC	G	CUUCCCUU	12496	AAGGGAAG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AGAGCCAU	34781
1941	9089	UUCCCUUG	G	CCUUUCG	12497	CGGAAAGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CAAGGGAA	34782
1960	9070	CUCUCGGG	G	UUUUUUUC	12498	AGAAAAAA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	CCGGAGAG	34783
1985	9045	CCCAUCAU	G	UUGUAAAU	12499	AUUUACAA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AUGAUGGG	34784
1988	9042	AUCAUGUU	G	UAAAUCCA	12500	UGCAUUAU	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AACAUGAU	34785
1994	9036	UUGUAAAU	G	CAAGUGUG	12501	CACACUUG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AUUUACAA	34786
1998	9032	AAAUCAA	G	UGUGACAU	12502	AUGUACAA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	UUUGCAUU	34787
2000	9030	AUGCAAGU	G	UGACAUCU	12503	GAAUUCUA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	ACUUGCAU	34788
2014	9016	UUCCCCCC	G	CAGAUGUG	12504	CACAUUCG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	GGGGGAA	34789
2020	9010	CCGCAGAU	G	UGCCUCGC	12505	GCGAGGCA	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	AUCUGCGG	34790
2022	9008	GCAGAUUG	G	CCUCGCGC	12506	GCGCGAGG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	ACAUCUGC	34791
2027	9003	UGUGCCUC	G	CGCUCUCU	12507	GAGGAGCG	GGAGGAAA	CUCUCCUACAAGGACAUCGUCCGGG	GAGGCACA	34792

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2029	9001	UGCCUGGC	G	CUCUUAU	12508	AUAGGAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCGAGGCA	34793
2070	8960	CUUCAUCU	G	CUUCUCUG	12509	CAGAGAAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGUUGAAG	34794
2079	8951	CUUCUCUG	G	CGCUCUCU	12510	GAGGAGCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGAGAAG	34795
2081	8949	UCUCUGGC	G	CUCUCCA	12511	UGGAGGAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCCAGAGA	34796
2098	8932	UGAUUCU	G	CUCUCAA	12512	UUGAAGAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGAAUCAA	34797
2112	8918	CAACAUG	G	CACCCAAA	12513	UUUGGUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUGUUUG	34798
2121	8909	CACCCAAA	G	CUGCAUUG	12514	CAUUGCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UUUGGGUG	34799
2124	8906	CCAAAGCU	G	CAUUGCUG	12515	CAGCAUUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCUUUGG	34800
2129	8901	GCUGCAU	G	CUGUGAC	12516	GUCAACAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AAUGCAGC	34801
2132	8898	GCAUUGCU	G	UGACCUU	12517	AAGGUCAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCAUUGC	34802
2162	8868	UCUCGAGA	G	CACAUUCU	12518	AGAAUGUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCUCGAGA	34803
2176	8854	UCUGGAC	G	UUUUUCUC	12519	GAGAAAAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUCCCCAGA	34804
2187	8843	UUUCUCUG	G	CCAAAAAC	12520	GUUUUUGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGAGAAA	34805
2196	8834	CCAAAAAC	G	CCCAACAAC	12521	GUUGUGGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUUUUUUG	34806
2207	8823	CACACCA	G	UGGUGGU	12522	ACCACCAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGGUUUGG	34807
2211	8819	ACCAGUUG	G	UGGUCUCA	12523	UGAGACCA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAACUGGU	34808
2214	8816	AGUUGUG	G	UCUCAUUG	12524	CAAUGAGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CACCAACU	34809
2224	8806	CUCAUGA	G	CACGUACU	12525	AGUACGUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCAAUAGG	34810
2228	8802	UUGAGCAC	G	UACUUCAC	12526	GUGAAGUA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUGCUCAA	34811
2245	8785	UCCUUCUG	G	CGGUUCAG	12527	CUGAACCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGAAGGA	34812
2248	8782	UUCUGGCG	G	UUCAGGAG	12528	CUCUGAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGCCAGAA	34813
2256	8774	GUUCAGGA	G	CUUUCUGU	12529	CACGAAAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCCUGAAC	34814
2262	8768	GAGCUUUC	G	UGUCCACC	12530	GGUGGACA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GAAGGCUC	34815
2264	8766	GUUUUGU	G	UCCACCUU	12531	AAGGUGGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACGAAAGC	34816
2287	8743	GAACACUC	G	CUGCUGCC	12532	GGCAGCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GAGUGUUC	34817
2290	8740	CACUCGCU	G	CUGCCCGA	12533	UCGGGCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCGAGUG	34818
2293	8737	UCGUCGCU	G	CCCGAAGG	12534	CCUUCGGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCAGCGA	34819
2304	8726	CGAAGGGA	G	UAGUGUCA	12535	UGACACUA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCCCUUUG	34820
2307	8723	AGGAGUA	G	UGUCAGUC	12536	GACUGACA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UACUCCCU	34821
2309	8721	GGAGUAGU	G	UCAGUCAU	12537	AUGACUGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACUACUCC	34822
2313	8717	UAGUGUCA	G	UCAUGGCC	12538	GGCCAUGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGACACUA	34823
2319	8711	CAGUCAUG	G	CCAUGGUG	12539	CACCAUGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUGACUG	34824
2325	8705	UGGCAUG	G	UGGUAAAC	12540	UGUUACCA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUGGCCA	34825
2328	8702	CCAUGGUG	G	UAACAUCU	12541	GAAGUUA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CACCAUGG	34826
2337	8693	UAACAUCU	G	UGAUGGUG	12542	CACCAUUA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GAAUGUUA	34827
2343	8687	UCGUGAUG	G	UGUCCCAU	12543	AUGGGACA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUCACGA	34828
2345	8685	GUGAUGGU	G	UCCCAUGG	12544	CCAUGGGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACCAUCAC	34829
2353	8677	GUCCCAUG	G	UUUUGAGA	12545	UCUCAAAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUGGGAC	34830
2365	8665	UGAGAGGA	G	CCUGACCA	12546	UGGUCAGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCCUCUCA	34831
2386	8644	AUUGACCA	G	CGAACUGG	12547	CCAGUUCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGGUCAAU	34832

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2394	8636	GCGAATCG G	CGAGCCU	12548	AGGUCCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CAGUUCG	34833
2399	8631	CUGGGGA G	CCUGGG	12549	CCACAGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UCCGCCAG	34834
2403	8627	CGAGCCU G	UGGGUUC	12550	GAAGCCCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	AGGCUCCG	34835
2407	8623	GCCUGGG G	CUUCACAU	12551	AUGUGAAG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CCACAGGC	34836
2423	8607	UCAUAACU G	CCGUGAUA	12552	UAUCACGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	AGUUAUGA	34837
2426	8604	UAUCUGCC G	UGAUAUUV	12553	AACUACAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GGCAGUUA	34838
2432	8598	CCUGAUA G	UUCRAGGU	12554	ACCUGGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UAUCACGG	34839
2439	8591	AGUUCAG G	UUCUAUUV	12555	AUAUAGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CUGGAACU	34840
2450	8580	CUAUAUG G	UGGUDUC	12556	GAGAACCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CCAUAUAG	34841
2453	8577	UAUGGGUG G	UUCUCAUC	12557	GAUGAGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CACCCAUA	34842
2462	8568	UUCUCAUC G	UGGUGCCA	12558	UGGCACCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GAUGAGAA	34843
2465	8565	UUAUCUG G	UGCCAGGU	12559	ACGUGGCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CACGAUGA	34844
2467	8563	AUCGUGGU G	CCACGUCG	12560	CGACGUGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	ACCACGAU	34845
2472	8558	GGUGCCAC G	UCGAAUCG	12561	CAGUUCGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GUGGCACC	34846
2480	8550	GUCGAACU G	UACUCACG	12562	CGUGAGUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	AGUUCGAC	34847
2488	8542	GUACUCAG G	CCUGAGUC	12563	GACUCAGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GUGAGUAC	34848
2494	8536	ACGCCUAG G	UCGUUCA	12564	UUGAACGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UCAGGCGU	34849
2497	8533	CCUGAGUC G	UUCRAUCC	12565	GGAUUGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GACUCAGG	34850
2507	8523	UCAUCCU G	UUCUUGAU	12566	AUCAAGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	AGGAUUGA	34851
2523	8507	UUUAACUG G	UGUCUGAG	12567	CUCAGACA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CAGUAAAA	34852
2525	8505	UUAUCUGU G	UCUGAGUU	12568	AACUCAGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	ACCAGUAA	34853
2531	8499	GUGUCUGA G	UUGAGCAG	12569	CUGCUCAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UCAGACAC	34854
2536	8494	UGAGUUGA G	CAGGGGUU	12570	AACCCUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UCAACUCA	34855
2542	8488	GAGCAGGG G	UUUCCCA	12571	UGGGAAGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CCUUCUC	34856
2553	8477	UCCCAACC G	CCUUGGUU	12572	AACCAAGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GGUGGAA	34857
2573	8457	CCGCCUG G	UUCACAU	12573	AAGUGGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CAGGGCGG	34858
2573	8457	CUUCCAA G	UUUACAUC	12574	GAUGUAAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UUGGGAAG	34859
2588	8442	UCUCCUC G	UAUUGGG	12575	CCCCAAUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GAGGAAGA	34860
2596	8434	GUUUGGG G	UCCCUUC	12576	GGAAGGGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CCCAUAC	34861
2607	8423	CCUCCAG G	UCCUUUU	12577	AAAAAGGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CUGGAAGG	34862
2632	8398	UCCUAGGA G	CACCUGCC	12578	GCCAGGUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UCCUAGGA	34863
2639	8391	AGCACUG G	CUGGUCAU	12579	AUGACCCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CAGGUGCU	34864
2643	8387	CCUGGUG G	UCAUAUUC	12580	GAUAUGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	CAGCCAGG	34865
2659	8371	CAUCGUAU G	UACCACAU	12581	AUGUGUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	AUUCAGUG	34866
2669	8361	ACCACAUU G	CCUGAAGC	12582	GCTUCAGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	AAUGUGGU	34867
2676	8354	UGCCUGAA G	CUCGACUC	12583	GAGUCGAG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	UUCAGGCA	34868
2699	8331	UACAUUC G	UGCGUGGA	12584	UCCACGCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GAGAUGUA	34869
2701	8329	CAUCUGU G	CGUGGAU	12585	AUUCACG	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	ACGAGAUG	34870
2703	8327	UCUCGUGC G	UGGAUUC	12586	GAUUAUCC	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GCACGAGA	34871
2713	8317	GGAAUCC G	UGAGAGUG	12587	CACUCUCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGG	GGAAUUC	34872

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2719	8311	CGUGAGA G UGGUUUC	12588	GAAACCCA GGAGGAAACUCCUUAAGGACAUCGUCCGG UCUACCG	34873
2723	8307	GAGAGUG G UUUCUAC	12589	GUCAGAAA GGAGGAAACUCCUUAAGGACAUCGUCCGG CCAUCUC	34874
2734	8296	UCUGACCA G UCCCCCC	12590	GGGGGGA GGAGGAAACUCCUUAAGGACAUCGUCCGG UGUACAGA	34875
2750	8280	CCAUACG G CGUUGAG	12591	CUCAACG GGAGGAAACUCCUUAAGGACAUCGUCCGG CGUAUGG	34876
2752	8278	AUACCGC G UUGGACA	12592	UGUCCAA GGAGGAAACUCCUUAAGGACAUCGUCCGG GCCGUUAU	34877
2758	8272	CGUUGGA G CAGCUCA	12593	UGGACUG GGAGGAAACUCCUUAAGGACAUCGUCCGG UCCAACGC	34878
2761	8269	UUGGAGA G CUCAUCU	12594	AGAUGGAG GGAGGAAACUCCUUAAGGACAUCGUCCGG UGUCCAA	34879
2785	8245	GACUUCG G CAUGUAGG	12595	CUUACAU GGAGGAAACUCCUUAAGGACAUCGUCCGG CGAAAGUC	34880
2789	8241	UUCGGCAU G UAGGGCA	12596	UGCCCUA GGAGGAAACUCCUUAAGGACAUCGUCCGG AUGCCGAA	34881
2795	8235	AUGUAGG G CAGAGCAC	12597	GUCUCUG GGAGGAAACUCCUUAAGGACAUCGUCCGG CCUACAU	34882
2800	8230	GGGGCAGA G CACCUCA	12598	UGAAGGUG GGAGGAAACUCCUUAAGGACAUCGUCCGG UUGCCCC	34883
2810	8220	ACCUAC G CAAAUC	12599	GAAUUUG GGAGGAAACUCCUUAAGGACAUCGUCCGG GUGAAGGU	34884
2824	8206	UUCUUUG G CCUCGCU	12600	ACCGAGG GGAGGAAACUCCUUAAGGACAUCGUCCGG CAAGGAA	34885
2831	8199	GGCCUCG G UGAGCCA	12601	UGGUGCA GGAGGAAACUCCUUAAGGACAUCGUCCGG CGAGGGCC	34886
2833	8197	CCUCGCU G CAGCCAGU	12602	ACUGGUG GGAGGAAACUCCUUAAGGACAUCGUCCGG ACCGAGG	34887
2836	8194	UGGUGCA G CCAGUCCU	12603	AGGACUG GGAGGAAACUCCUUAAGGACAUCGUCCGG UGCACCGA	34888
2840	8190	UGCAGCA G UCCUCAAC	12604	GUUAGGA GGAGGAAACUCCUUAAGGACAUCGUCCGG UGGUCUGA	34889
2868	8162	CCGAAUC G UCUAUGC	12605	GCAVAGA GGAGGAAACUCCUUAAGGACAUCGUCCGG GAUUCGG	34890
2875	8155	GGUCCAU G CUCUCAA	12606	UDGAAGG GGAGGAAACUCCUUAAGGACAUCGUCCGG AUAGGACG	34891
2889	8141	CAACUCA G CACUAGC	12607	GUCAAGU GGAGGAAACUCCUUAAGGACAUCGUCCGG UGAGGUUG	34892
2912	8118	UCUCCAU G UCACAAAG	12608	CUUUUGA GGAGGAAACUCCUUAAGGACAUCGUCCGG AUCGAGA	34893
2925	8105	AAAGGAG G UGUCACAA	12609	UDUGACA GGAGGAAACUCCUUAAGGACAUCGUCCGG CCUCUUU	34894
2927	8103	AGGAGGU G UCACACAA	12610	UGUUUGA GGAGGAAACUCCUUAAGGACAUCGUCCGG ACCUCUU	34895
2944	8086	CUAGAG G UCUGUAGA	12611	UCUACAGA GGAGGAAACUCCUUAAGGACAUCGUCCGG CUUCUGAG	34896
2948	8082	GAAGGUCU G UAGAACAC	12612	GUGUUCU GGAGGAAACUCCUUAAGGACAUCGUCCGG AGACCUUC	34897
2976	8054	GUUCUAG G UGACAAUG	12613	CAUUGUA GGAGGAAACUCCUUAAGGACAUCGUCCGG CAUGAGA	34898
2984	8046	GUGACAU G UCCAUCC	12614	GGUUGGA GGAGGAAACUCCUUAAGGACAUCGUCCGG AUUGUCAC	34899
3001	8029	AUAACUU G CACUAGU	12615	AAUAGUG GGAGGAAACUCCUUAAGGACAUCGUCCGG AAAGUUU	34900
3007	8023	UUGACUA G UUGGGGU	12616	AGCCCCA GGAGGAAACUCCUUAAGGACAUCGUCCGG UAGUGCAA	34901
3013	8017	UAGUUGG G CUCUUCU	12617	AUGAAGG GGAGGAAACUCCUUAAGGACAUCGUCCGG CCCACUA	34902
3022	8008	CUCUUCU G UCGGGAC	12618	GUCCCGA GGAGGAAACUCCUUAAGGACAUCGUCCGG AUGAAGAG	34903
3032	7998	CGGGACC G CCUUUGU	12619	ACAAAGG GGAGGAAACUCCUUAAGGACAUCGUCCGG GGUCCGG	34904
3039	7991	CGCCUUU G UGUACCU	12620	AGGUACA GGAGGAAACUCCUUAAGGACAUCGUCCGG AAAGGCG	34905
3041	7989	CCUUUGU G UACCCUU	12621	AGAGGUA GGAGGAAACUCCUUAAGGACAUCGUCCGG ACAAGGG	34906
3072	7958	UUUUUGG G UUGCCAU	12622	UAUGGCA GGAGGAAACUCCUUAAGGACAUCGUCCGG CCAAAAA	34907
3075	7955	UUUGGUU G CCAUUAU	12623	CUUAUUG GGAGGAAACUCCUUAAGGACAUCGUCCGG AACCCAA	34908
3083	7947	GCCAUAU G UAACACCA	12624	UGGUUUA GGAGGAAACUCCUUAAGGACAUCGUCCGG UUAUUGG	34909
3095	7935	CACCAAC G CCUCUCC	12625	GGAAGAG GGAGGAAACUCCUUAAGGACAUCGUCCGG GGUUGUG	34910
3113	7917	CAUCCAG G UCAUACAC	12626	GUGAUUA GGAGGAAACUCCUUAAGGACAUCGUCCGG CUUGGAU	34911
3133	7897	UCCGACG G UUCGAGAA	12627	UUUCGAA GGAGGAAACUCCUUAAGGACAUCGUCCGG CGGUCCGA	34912

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3148	7882	AAACUCC G UUCGACCA	12628	UGGUCGAA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG GGAGGUUU	34913
3157	7873	UUCGACCA G CCAUCUA	12629	UGAUGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UGGUCGAA	34914
3166	7864	CCAUCUA G UUUUGCUG	12630	CAGCAAAA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UGAGAUGG	34915
3171	7859	UCAGUUU G CUGUGCC	12631	GGCACAG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AAAACUGA	34916
3174	7856	GUUUUGU G UGCCCUA	12632	UAGGGCA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AGCAAAAC	34917
3176	7854	UUUGUGU G CCCCAGA	12633	UCUAGGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG ACAGCAAA	34918
3193	7837	GACUGAU G CCCUCCAG	12634	CUGAGGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AUCCAGUC	34919
3201	7829	GCCUCCA G UGACAUUG	12635	CAAUGUA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UGGAGGGC	34920
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AAUGUCAC	34921
3222	7808	CUUCCUG G CGUGUUUU	12637	AAACACG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CAGGAAAG	34922
3224	7806	UUCUUGG G UGUUUUGC	12638	GCAAAACA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG GCCAGGAA	34923
3226	7804	CCUGGCGU G UUUUGCG	12639	CGGCAAAA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG ACGCCAGG	34924
3231	7799	CGUGUUU G CCGCUGAG	12640	CUCAGCG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AAAACACG	34925
3234	7796	GUUUUGG G CUGAGCGA	12641	UCCUCAG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG GGCAAAAC	34926
3239	7791	GCCGCUA G CGAUCGAC	12642	GUCGAUG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UCAGCGGC	34927
3258	7772	CGAUGAU G CCUCUUUG	12643	CAAAAGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CAUCAUCG	34928
3266	7764	GCCUUUU G CGGUACCU	12644	AGGUACG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AAAGAGGC	34929
3269	7761	UCUUUGG G UACCUAGU	12645	ACTUAGUA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CGCAAAAG	34930
3276	7754	GGUACCUA G UGAACUCU	12646	AGAGUUA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UAGGUACC	34931
3291	7739	CUUCUUU G UCAUCUGG	12647	CCAGAUA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AAAAGAAG	34932
3299	7731	GUCAUCU G UUGAGUCU	12648	AGACUCA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CAGAUGAC	34933
3304	7726	CUGGUUA G UCUUUCU	12649	AAGAAAG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UCAACCAG	34934
3330	7700	CUCCUAG G UGCGUCU	12650	AGGACGA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CUUGGAG	34935
3332	7698	CCCAAGU G CGUCCUUU	12651	AAAGGAC GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG ACCUUGGG	34936
3334	7696	CAAGGUG G UCCUUUUG	12652	CAAAAGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG GCACCUUG	34937
3342	7688	GUCCUUU G CCCACCU	12653	AGGUGGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AAAAGGAC	34938
3358	7672	UCUUUUA G UCCUGGU	12654	AACCAGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UAAAAAGA	34939
3364	7666	UAGUCUG G UUUUUCCA	12655	UGGAAAA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CAGGACUA	34940
3374	7656	UUUCCAU G UUCUUUAU	12656	AUAAAGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AUGGAAA	34941
3385	7645	CUUUAUGA G UGUCCAU	12657	CAUGGAC GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UCAUAAAG	34942
3387	7643	UUUUGAGU G UCCAUUUU	12658	AACAUGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG ACUCAUAA	34943
3393	7637	GUGUCCAU G UUAUGGAU	12659	AUCAUAA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AUGGACAC	34944
3424	7606	ACCCUAC G CAUGAUGU	12660	ACAUCUG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG GUGGGGUU	34945
3431	7599	CGCAUGAU G UGGCAGAG	12661	CUUCUCC GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AUCAUGCU	34946
3434	7596	AUGAUGU G CAGAGUCC	12662	GGACUCU GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CACAUCAU	34947
3439	7591	GUGGCAGA G UCCGAUGG	12663	CCAUCGG GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UCUGCCAC	34948
3447	7583	GUCCGAUG G CAGUUGUU	12664	AACAACU GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG CAUCGGAC	34949
3450	7580	CGAUGGCA G UUGUUGCG	12665	CGCAACA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG UGCCAUUG	34950
3453	7577	UGGCAGUU G UUGUGUUC	12666	GAACGCA GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AACUGCCA	34951
3456	7574	CAGUUGU G GGUUCCAA	12667	UUGGAAC GGAGGAAAUCUCCUUAAGGACAUCGUCCCGG AACACUG	34952

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3458	7572	GUUGUUGC G UUCAAAAC	12668	GUUUGGAA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34953
3470	7560	CAACAGA G CUUGCUCC	12669	GGAGCAAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34954
3474	7556	CAGAGCUU G CUCAUUC	12670	GAAUGGAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34955
3490	7540	CUCCCAA G CGUCACG	12671	CGUGACG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34956
3492	7538	CCCAAAGC G UCACCGCU	12672	AGCGGUGA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34957
3498	7532	GGUACACC G CGGCGGC	12673	GGCGGAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34958
3501	7529	UCACCGCU G CGGCGGUG	12674	CACGGCCG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34959
3504	7526	CGCUGCG G CGUGAUC	12675	GAUCACGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34960
3507	7523	CUGCGGCC G UGAUCAA	12676	UUUGAUC GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34961
3522	7508	AAAUCCG G CUUCUGU	12677	ACGAGAAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34962
3529	7501	GGCUUCUC G UACUGUCU	12678	AGACAGUA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34963
3534	7496	CUCGUACU G UCUUCACA	12679	UGUGAAGA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34964
3548	7482	ACAGACGG G UUCACUAC	12680	GUAGUGAA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34965
3561	7469	CUACUACU G CAGCUAGA	12681	UCVAGCUG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34966
3564	7466	CUACUGCA G CUAGAGAC	12682	GUCUCUAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34967
3583	7447	CAAGAUC G CAUGAUCU	12683	AGAUCUAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34968
3592	7438	CAUGAUCU G UCCAACUU	12684	AAGUUGGA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34969
3607	7423	UUUCUUCU G CAUGAUGG	12685	CCAUCAUG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34970
3616	7414	CAUGAUGG G UGUGGUGC	12686	GCACACCA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34971
3618	7412	UGAUGGCU G UGGUGCGC	12687	GCGCACCA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34972
3621	7409	UGGUGUGG G UGCGUCUU	12688	AGAGCGCA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34973
3623	7407	GGUGUGGU G CGCUCUAA	12689	UUAAGCGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34974
3625	7405	UGUGGUGC G CUCUAAUU	12690	AAUAGAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34975
3641	7389	UCUGGGAC G UCCGUGGC	12691	GCCACGGA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34976
3645	7385	GGACGUCC G UGGCCACG	12692	CGUGGCCA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34977
3648	7382	CGUCCGUG G CCACGAUG	12693	CAUGGUGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34978
3656	7374	GCCACGAV G CCAUCCAC	12694	GUGGAUGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34979
3669	7361	CCACUACA G GUUCUUC	12695	GAAAGACG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34980
3671	7359	ACUACAGC G UUCUUAU	12696	AUGAAGAA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34981
3687	7343	UGAUUCGG G CGCUGUC	12697	GACAGCGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34982
3690	7340	UUCCGGCC G CUGUCCGC	12698	GCGACACG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34983
3693	7337	CGGCCGCU G UCCGCCGC	12699	GCGCGGGA GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34984
3697	7333	CGCUUCC G CCGUGGG	12700	CCACAGCG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34985
3700	7330	UGUCCGCG G CUGGGCUG	12701	CAGCCACG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34986
3705	7325	GCCGCUUG G CUGAGCGC	12702	GCGCUCAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34987
3710	7320	UGGCUUGA G CGCAUUGC	12703	GCAUUGCG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34988
3712	7318	GGCUAGAC G CAUUGCCU	12704	AGGCAUUG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34989
3717	7313	AGCGCAU G CUCACGU	12705	AGCUGAGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34990
3723	7307	UUGCCUCA G CUUGCCAA	12706	UUGGCAAG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34991
3727	7303	CUCAGCUU G CCAACCGG	12707	CCGGUUGG GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	34992

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3743	7287	GGAAACCAU G UAGGCAUA	12708	UAUGCCUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUGGUUCC	34993
3747	7283	CCAUGUAG G CAUAGUGG	12709	CCACUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUACAUGG	34994
3752	7278	UAGGCAUA G UGCAAAA	12710	UUUUGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUGCCUA	34995
3755	7275	GCAUAGUG G CAARAAG	12711	CUUUUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACUAUGC	34996
3766	7264	AAAAGGA G UGUUGCCG	12712	CGGCAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCUUUUU	34997
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUCUUUU	34998
3771	7259	GGAGUGUU G CGCUGUU	12714	AACAGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACACUCC	34999
3774	7256	GUGUUGCC G CUGUUAAC	12715	GGUAAACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGCACACC	35000
3777	7253	UUGCCGCU G UUAACGUA	12716	UACGGUAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCGGCAA	35001
3783	7247	CUGUUAAC G UAACGGUG	12717	CACCGUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUAAACAG	35002
3789	7241	CGUUAACG G UGAGGGUG	12718	CACCCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGUUAACGG	35003
3795	7235	CGUGAGG G UGACUUGU	12719	ACRAGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCUCACCG	35004
3802	7228	GGUGACUU G UCCCCAGC	12720	GCUGGGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUCACC	35005
3809	7221	UGUCCCA G CAUCCGCG	12721	GCCGAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGGAGCA	35006
3816	7214	AGCAUCCG G CUGCUAGC	12722	GCUAGCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGGAUGCU	35007
3819	7211	AUCCGGCU G CUAGCAGG	12723	CTUGCUAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCCGGAU	35008
3823	7207	GGCUGCUA G CAGGAGAG	12724	CUCUCCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAGCAGCC	35009
3831	7199	GCAGGAGA G CCGACACU	12725	AGUGUCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCUCUCGC	35010
3860	7170	AAGGGGAA G CCUCGCGC	12726	GCGCGAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGCCCCUU	35011
3865	7165	GAAGCCUC G CGCGAGUG	12727	CACUCCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GAGGCUUC	35012
3867	7163	AGCCUCCG G CGAGUGUG	12728	CACACUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCGAGGCU	35013
3871	7159	UGCGCGGA G UGUGAAUA	12729	UAUUCACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCGCGCGA	35014
3873	7157	GCGCGAGU G UGAUUAU	12730	ACUAUUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUCGCGC	35015
3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGUUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUUCACA	35016
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUAUUGA	35017
3888	7142	GUGCACUU G CCUGAACG	12733	CGUUCAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUGCAC	35018
3896	7134	GCCUGAAC G UUAUUGA	12734	UCAAUAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUUCAGGC	35019
3906	7124	UUAUUGAG G UCAUUGAG	12735	CUCAUUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCAAUAA	35020
3915	7115	UCAAUGAG G UGUUGAUG	12736	CAUCAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCAUUGA	35021
3917	7113	AUUGAGGU G UUGAUGUA	12737	UACAUCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACCUCAUU	35022
3923	7107	GUGUUGAU G UAAUCUGA	12738	UCAGAUAU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUCAACAC	35023
3933	7097	AUUCUGAC G UGAUCAAA	12739	UUUGAUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUCAGAUU	35024
3943	7087	GAUCAAAU G CUUUAACA	12740	UGCUAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUUUGAUC	35025
3949	7081	AUGCUUUA G CAGUGGAG	12741	CUCCACUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAAAGCAU	35026
3952	7078	CUUUAACA G UGGAGUGA	12742	UCACUCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUUAAAG	35027
3957	7073	GCAGUGGA G UGAGGACC	12743	GGUCCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCACUUC	35028
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUCCUCA	35029
3969	7061	GGACCGCU G UUGUCACA	12745	UGUGACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCGGUCC	35030
3972	7058	CCGCUUUU G UCACAGCG	12746	CGCUGUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACAGCGG	35031
3978	7052	UUGUCACA G CGUACAGU	12747	ACUGUACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUGACAA	35032

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3980	7050	GUACAGC G UACAGUGA	12748	UCACUGUA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCUGUGAC	35033
3985	7045	AGCGUACA G UGACCAAG	12749	CCUGGUCA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGUACGCU	35034
3993	7037	GUGACAG G CUGUUGCC	12750	GGCAACAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUGGUCAC	35035
3996	7034	ACCAGGU G UUGCCGCG	12751	GCCGGCAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	.AGCCUGGU	35036
3999	7031	AGGCGUU G CCGGCUC	12752	GAGGCCGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AACAGCCU	35037
4003	7027	UGUUGCG G CCUCAGU	12753	ACUUGAGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGGCAACA	35038
4010	7020	GGCCUAA G UCCAAAG	12754	CUUUUGGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UUGAGGCC	35039
4031	6999	UUCUCCAU G CUGAAAU	12755	AAUUUCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGGGAGA	35040
4060	6970	AAUUCUU G CCAACA	12756	UGUUUGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AAAGAAU	35041
4073	6957	AACRAAU G CUUAGUC	12757	GACAUAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGUUUGU	35042
4079	6951	CUGCUAU G UCACUCU	12758	AAGAGUGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUAAGCAG	35043
4089	6941	CACUCUUG G UCUUAUCU	12759	AGAUAAGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAAGAGUG	35044
4099	6931	CUUAUUA G CCAACCA	12760	UGGUUGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UAGAUUAG	35045
4112	6918	CCCAUCU G UUGGUGC	12761	GCAGCCAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GAGAUGGG	35046
4116	6914	UCUGUUG G CUGCCACU	12762	AGUGGCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAACGAGA	35047
4119	6911	CGUUGGU G CCACUGCG	12763	CGCAGUGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCCAACG	35048
4125	6905	GUCGACU G CGUCACA	12764	UGUGAGCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGUGGCAG	35049
4127	6903	GCCACUG G CUCACAAG	12765	CUUGUGAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCAGUGGC	35050
4137	6893	UCACAAG G UCAUGACA	12766	UGUCAUGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CCUUGUGA	35051
4161	6869	GGAACAG G CUAGCUGG	12767	CCAGCUAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGUGUUC	35052
4165	6865	CACGCUA G CUGGUUGU	12768	ACAACCCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UAGCCGUG	35053
4169	6861	GUAGCUG G UUGUCUGU	12769	ACAGACAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGCUAGC	35054
4172	6858	AGCUGGU G UCUGUCUG	12770	CAGACAGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AACCAGCU	35055
4176	6854	GUUGUCU G UCUGCGAA	12771	UUCGCAGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGACAACC	35056
4180	6850	GUCUGUC G CGAACGUU	12772	AACGUUCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGACAGAC	35057
4186	6840	CUGCGAC G UUGCUUCU	12773	AGAAGCAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUUCGCAG	35058
4189	6841	CGRACGU G CUUCUCUG	12774	CAGAGAAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AACGUUCG	35059
4198	6832	CUUCUCUG G CUCAGGAA	12775	UUCUUGAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGAGAAG	35060
4210	6820	AGGAUUA G CACAUCA	12776	UGAUUGUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UAAUUCU	35061
4234	6796	AAGGAGA G CAGCACA	12777	UGUUGCUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCUCCCUU	35062
4237	6793	GGAGAGA G CAACAUUC	12778	GAUUGUUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGCUCUCC	35063
4248	6782	ACAUUCG G CGAUCUUC	12779	GAAGAUCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGGAUUGU	35064
4257	6773	CGAUCUUC G UUCUGGA	12780	UCCAGGAA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GAAGAUCG	35065
4272	6758	GAACUUA G CCAUCGA	12781	UUGGAUG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGAAGUUC	35066
4290	6740	AGAAAAG G UCGGACU	12782	AGUCGCGA	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUUUUUUU	35067
4293	6737	AAAAGGUC G CGACUCCC	12783	GGGAGUCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GACCUUUU	35068
4308	6722	CCAAGACA G CGCUUCC	12784	GGGAGGCG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGUCUUGG	35069
4310	6720	AAGACAG G CCUCCAA	12785	UUGGGAGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCUGUCUU	35070
4334	6696	UUUCAAU G CCUUUCG	12786	CGGAAGGG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUUGGAAA	35071
4342	6688	GCCCUUC G CUGCAUGA	12787	UCAUGCAG	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGAAGGGC	35072

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4345	6685	CUUCCGCU G CAUGAGGA	12788	UCCUCAUG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG AGCGGAAG	35073
4371	6659	CUCCCAUG G UCAUCACA	12789	UGUGAUGA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CAUGGGGAG	35074
4389	6641	UCNAUAG G CAAUCAAG	12790	CUUGAUUG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CUUAUUGA	35075
4398	6632	CAAUCAAG G CAAUUGUC	12791	GACAAUUG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CUUGAUUG	35076
4404	6626	AGGCAUUG G UCUGAAGA	12792	UCUUCAGA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG AAUUGCCU	35077
4413	6617	UCUGAAGA G CAGUUGGC	12793	GCCAGUAG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UCUUCAGA	35078
4420	6610	AGCAUCUG G CAUCUCCU	12794	AGRAACUG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CAGAUCCU	35079
4423	6607	AUCUGGCA G UUCUCCUA	12795	UGGAGGAA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UGCAGAU	35080
4434	6596	CUCCCAGG G CCAUUCUG	12796	CAGAAUGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CUGGAGG	35081
4442	6588	GCAUUCU G UGAGUCU	12797	AGAGUCUA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG AGAAUGBC	35082
4446	6584	UUCUGUGA G CUUUCU	12798	AGAAAGAG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UCACAGAA	35083
4464	6566	CUUUCUCU G CAGUGGCC	12799	GGCCACUG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG AGAGAAAG	35084
4467	6563	UCUCUGCA G UGCCCACA	12800	UGUGGCCA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UGCAGAGA	35085
4470	6560	CUGCAGUG G CCAACAACG	12801	CGUUGUGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CACUGCAG	35086
4478	6552	GCACAAC G UCAUGGU	12802	ACCAUGUA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG GUUGUGGC	35087
4485	6545	CGUACAUG G UGUCAAGU	12803	ACUUGACA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CAUGUACG	35088
4487	6543	UACAUGGU G UCAAGUGC	12804	GCACUUGA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG ACCAUGUA	35089
4492	6538	GGUGUCAA G UGCUUCCC	12805	GGGAAGCA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UUGACACC	35090
4494	6536	UGUCAAGU G CUUCCCAU	12806	AUGGGAAG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG ACUUGACA	35091
4503	6527	CUUCCCAU G UCUUCCCC	12807	GGGGAAGA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG AUGGGAAG	35092
4517	6513	CCCAUGBA G UGUCUCAGG	12808	CTUGAGCA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UUCAUGGG	35093
4519	6511	CUGAAGU G CUCAGGCA	12809	UGCCUGAG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG ACUUC AUG	35094
4525	6505	GUUCUGU G CAUCUUC	12810	GAAGAUG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CAGAGCAC	35095
4549	6481	CUCAUUGA G CCGUAUCU	12811	AGAUAAGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UCUAUGAG	35096
4564	6466	CUGAGAAC G UUUUCCCCG	12812	CGGGAAAA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG GUUCUCAG	35097
4575	6455	UUCCCCAG G CGAAGUCC	12813	GGACUUCG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CUCGGGAA	35098
4580	6450	GAGGCGAA G UCCUUGAA	12814	UUCAAAGGA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UUCGCCUC	35099
4590	6440	CCUUGAAC G CCUUUAGU	12815	ACTUAAGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG GUUCAAGG	35100
4597	6433	CGCCUUUA G UGCGCUGU	12816	ACCAAGCA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UAAAGGCG	35101
4599	6431	CCUUUAGU G CUCGGUGA	12817	UCACGAGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG ACUAAAGG	35102
4604	6426	AGUCCUGU G UGAUCCGA	12818	UCGGAUCA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CAGGCACU	35103
4613	6417	UGAUCCUG G UACACCCU	12819	AGGGUGUA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UCGGGAU	35104
4623	6407	ACACCCUG G CGUCAUUC	12820	GAUTGACG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CAGGGUGU	35105
4625	6405	ACCCUGGC G UCAAUCCA	12821	UGGAUUGA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG GCCAGGBU	35106
4634	6396	UCAAUCCA G CGCGGCCU	12822	AGGCCCGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UGGAUUGA	35107
4636	6394	AAUCCAGC G CGGCCUCA	12823	UGAGGCCG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG GCTUGGAU	35108
4639	6391	CCAGCGCG G CCUCAGAA	12824	UUCUGAGG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CGCGCUGG	35109
4663	6367	UUCACCAA G CUUCUGA	12825	UCACGAAG	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG UUGGUGAA	35110
4668	6362	CACGUCU G UUAUGAG	12826	AGUCAUCA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG GAAGCUGG	35111
4685	6345	UCCACUUC G UUGUUGIC	12827	CGACAACA	GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCCGG CBAUGGUA	35112

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4688	6342	ACUUGUU G UUGUCUUC	12828	GAAGACAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AACGAAGU	35113
4691	6339	UCGUUGUU G UCUUCUAA	12829	UUAGAAGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AACAAACGA	35114
4704	6326	CUAAAATU G UGUUGUC	12830	GACAAACA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AAUUDUAG	35115
4706	6324	AAAATUUGU G UUUGUCCU	12831	AGGACAAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG ACAAUUUU	35116
4710	6320	UUGUGUUU G UCCUAGGA	12832	UCCUAGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AACACAAA	35117
4727	6303	CCAUCAAA G CACACCU	12833	AGUGGUG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UUUGAUGG	35118
4739	6291	CACUCCG G UCGUGUA	12834	UACCACGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CGGAGGUG	35119
4742	6288	CUCCGUG G UGUUAUGA	12835	UCAUACCA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GACCAGGAG	35120
4745	6285	CGUGUGU G UAUGACAC	12836	GUGUCAUA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CACGACCG	35121
4758	6272	ACACUCCA G CCGCUGCA	12837	UGCAGCGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGGAGUGU	35122
4761	6269	CUCAGCC G CUGCAACC	12838	GGUUGCAG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GGCUGGAG	35123
4764	6266	CAGCCGU G CAACCUUG	12839	CAAGGUUG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AGCGGCUG	35124
4772	6258	GCAACCU G UAAGCCAG	12840	CUGGCUUA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AAGGUUGC	35125
4776	6254	CCUUGUA G CCAGCCAA	12841	UUGGCUGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UUACAAGG	35126
4780	6250	GUAAGCCA G CCAAACTUG	12842	CAGUUUGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGGCUUAC	35127
4789	6241	CCAAACUG G CAGAUCUG	12843	GAGGACUG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAGUUUGG	35128
4797	6233	GCAGAUCU G CAGUCCUC	12844	GUUGAGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AGAUCUCG	35129
4800	6230	GAUCUGCA G UCCUCAAC	12845	UUUCUGAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGCAGAUC	35130
4810	6220	CCUCAACA G UCCAGAA	12846	AGAAAAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGUUGAGG	35131
4820	6210	UCCAGAA G UUUUUUCU	12847	AAUACCGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UUUCUGGA	35132
4843	6187	UCCUCUGA G CCGUAUU	12848	GGGGAUA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UCAGAGGA	35133
4847	6183	CUGAGCG G UAUUCOC	12849	GGUAUAUA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CGGCUCAG	35134
4863	6167	CAUCCAG G UAUUAACC	12850	AACCCAGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAUGGAUG	35135
4879	6151	CUUCAC G CUCUGUU	12851	CUUAUCUA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GUGAGAAG	35136
4885	6145	ACGCUCG G UUGGUAGA	12852	ACUGAUCG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAGAGCGU	35137
4889	6141	UCUGGUUG G UAGAATUG	12853	CAAACGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAACCCAGA	35138
4899	6131	AGAAUGA G GAUACAGU	12854	CAAAACGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UCAAUUCU	35139
4906	6124	AGCGAUA G UCCGUUUG	12855	AUGCCAAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGAUCGCU	35140
4910	6120	AUCAGUCC G UUUGGCAU	12856	UACAACUG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GGACUGAU	35141
4915	6115	UCCGUUUG G CAUGUUGA	12857	AACAUCAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAAAACGGA	35142
4919	6111	UUUGGCAU G UUGUCCAG	12858	CUGGACAA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUGCCAAA	35143
4925	6105	AUGUUGAU G UUGUCCAG	12859	AUGCUGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUCAACAU	35144
4928	6102	UUGAUGUU G UCCAGCAU	12860	GAUCAUG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AACAUCAA	35145
4933	6097	GUUGUCCA G CAUGAUUC	12861	CUGAGGCA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGGACAAC	35146
4942	6088	CAUGAUUC G UGCCUCAG	12862	GACUGAGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GAAUCAUG	35147
4944	6086	UGAUTUGU G CCUCAGUC	12863	CCAUAUGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG ACGAUAUA	35148
4950	6080	GUGCCUCA G UCCAAUUG	12864	GAACUUGG GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGAGGCAC	35149
4959	6071	UCCAAUGG G CGAAAUUC	12865	GACUUGGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CCAUUGGA	35150
4964	6066	UGGCGGAA G UUGGAGUC	12866	GAAGACGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UUCGCCCA	35151
4970	6060	AAGUJCGA G UCGUCUDC	12867	GAAGACGA GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UCGAACUU	35152

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4973	6057	UUCGAGUC G UCUUCAUU	12868	AAUGAAGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GACUCGAA	35153
4983	6047	CUUCAUUC G UGUGCCCC	12869	GGGGCACA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GAAUGAAG	35154
4985	6045	UCAUUGU G UGCCCCC	12870	GGGGGCA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG ACGAUUGA	35155
4987	6043	AUUCGUGU G CCCCCAU	12871	AUGGGGG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG ACACGAU	35156
5000	6030	CCAUAACA G UACUCAUC	12872	GAUGAGUA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG UGUUAUGG	35157
5017	6013	ACCAUUG G CGACGGAU	12873	AUCCGUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AAGUUGGU	35158
5038	5992	ACCGAUAC G UCCACGUC	12874	GACGUGGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GUUUGGU	35159
5044	5986	ACGUCAC G UCUCUGG	12875	CCCAGAGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GUGGACGU	35160
5052	5978	GUUCUGG G CGGCACUA	12876	UAGUGCCG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CCAGAGAC	35161
5055	5975	UCUGGGG G CACUAGCU	12877	AGCUAGUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CGCCCAGA	35162
5061	5969	CGGCACUA G CUGCUGUC	12878	GACAGCAG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG UAGUGCCG	35163
5064	5966	CACUAGCU G CUGUCACU	12879	AGUGACAG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGCUAGUG	35164
5067	5963	UAGCUGCU G UCACUGCA	12880	UGCAGUGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGCAGCUA	35165
5073	5957	CUGUCACU G CAGAUUGU	12881	ACCAUCUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGUGACAG	35166
5080	5950	UGCAGUAG G UUCUCCCA	12882	UGGAGAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CAUCUGCA	35167
5112	5918	CUCCUUCU G UUAUGAUG	12883	CAUCAUAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGAAGGAG	35168
5121	5909	UUAUGAUG G UUGGUUUC	12884	GAACCAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CAUCAUAA	35169
5125	5905	GAUGGUUG G UUUCACAC	12885	GUGUGAAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CAACCAUC	35170
5141	5889	CUCUCCG G CUGUCAAU	12886	AUUGACAG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CGGAAAGAG	35171
5144	5886	UUCCGGCU G UCAAUACAC	12887	GUGAUUGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGCCGGAA	35172
5156	5874	AUCACCU G CUCGCCUU	12888	AAGCGAG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGGUGAU	35173
5160	5870	CCCUGUC G CCUUGAAG	12889	CUUCAAGG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GAGCAGGG	35174
5168	5862	GCCUUGAA G UUAGCCCC	12890	GGGCGUAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG UUCAAGGC	35175
5172	5858	UGAGUUA G CCCCCAUU	12891	AAUGGGG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG UAAUUAUA	35176
5189	5841	UCAGAUAU G UCUGUUGU	12892	ACAACAGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AUAUCUGA	35177
5193	5837	AUAUGUCU G UUGUGAUA	12893	UAUCACAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGACAUUU	35178
5196	5834	UGUCUGUU G UGAUAAUA	12894	UGUUAUCA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AACAGACA	35179
5207	5823	AUAACAAA G UCCCAUUC	12895	GAUUGGGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG UUUUUUAU	35180
5219	5811	CAAUCAUC G UUCUUAUA	12896	UGUAAGAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GAUGAUUG	35181
5234	5796	CAUUTUGG G UACUCGUG	12897	ACGGAGUA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CCAAAUUG	35182
5241	5789	GGUACUCC G UCUCGUAC	12898	GUACGAGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GGAGUACC	35183
5246	5784	GCCGUCUC G UACGACUU	12899	AAGUCGUA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GAGACGGA	35184
5258	5772	UACUUCU G UUCAUUG	12900	CAAUUGAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AGAAAGUC	35185
5283	5747	UCUUUCCA G CACGUUGU	12901	ACAACGUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG UGGAAAGA	35186
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCCUACAA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GUGCUGGA	35187
5290	5740	AGCACGUU G UAGGCAAA	12903	UUUGCCUA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG AACGUUCU	35188
5294	5736	CGUUGUAG G CAAAGGCG	12904	GCCCUUUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CUACAACG	35189
5301	5729	GGCAAGG G CAUUCUCA	12905	UGAGAUUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CCUUGGCC	35190
5329	5701	GACACUAG G CACAAACC	12906	GGUUGUG GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG CUAGUGUC	35191
5343	5687	ACCAACC G UCUDUCCG	12907	CGGGAAGA GGAGGAAAUCUCCUUCAAGGACAUCGUCUCCGG GGUUUGGU	35192

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5352	5678	UCUCCCG G UGUUUCU	12908	AGAAUACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGGGAGA	35193
5354	5676	UUCGCGG G UAUUCUG	12909	ACAGAAUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACGGGAA	35194
5361	5669	UGUAUUC G UGAUCCAU	12910	AUGGAUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAAUACA	35195
5372	5658	AUCCAUUC G UAUCCAGA	12911	UCUGGAUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAAUGAU	35196
5381	5649	UAUCAGA G UUCAAGC	12912	GUUGGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCUGGAUA	35197
5388	5642	AGUCCNA G CUCGAUCC	12913	GGAUCCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUGGAAUC	35198
5406	5624	GGAUUCU G UUGUAAG	12914	CUUACAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAGAUCC	35199
5410	5620	CUCAGUC G UAAGUCGG	12915	CCGACUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGACUGAG	35200
5414	5616	GUCUGAA G UCGGAAU	12916	AUUUCCGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUACAGAC	35201
5425	5605	GGAAUUG G UGAUUGG	12917	CCAAUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAAUUUCC	35202
5454	5576	GAUCUGA G UGCGUGG	12918	ACCAAGCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUCAGAU	35203
5456	5574	UCUGAAG G CCUGGUG	12919	CCACCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUUCAGA	35204
5461	5569	AGUGCCU G UGGGUGG	12920	CCACCCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGGCACU	35205
5466	5564	CUGGUGG G UGGUGUC	12921	GACAGCCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCACCCAG	35206
5469	5561	GGGUGUG G CUGUCAUG	12922	CAUGACAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CACCCAC	35207
5472	5558	GGUGGCU G UCAUGAAU	12923	AUUCAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCCACCC	35208
5484	5546	UGAAUUA G CCGCGGC	12924	GGCGCGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUAUUA	35209
5487	5543	AUAUUGC G CCGCCUC	12925	GGAGGCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGCAUUAU	35210
5490	5540	UUGCCGC G CCUCCCU	12926	AGGGAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGCGGCA	35211
5500	5530	CUCCCUA G CUGACCU	12927	AGGUCGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAGGGAG	35212
5511	5519	CGACCUU G UGGAAUG	12928	CAUUCCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAGGUCG	35213
5519	5511	GUGGAAU G UAACCUU	12929	AGAGGUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUUUCCAC	35214
5529	5501	AACCUUU G CUGCAUG	12930	CAUUGCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGAGUU	35215
5532	5498	GCUGCAU G CUAGCUG	12931	UAGCAUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCAAGAG	35216
5537	5493	CAUGCUA G CUGGGUG	12932	CGACCCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUUGCAGC	35217
5541	5489	CAUGCUA G CUGGGUG	12933	UUCACCGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAGCAUUG	35218
5546	5484	CUAGCUG G UCGGUGA	12934	UUAUUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGAGCUAG	35219
5550	5480	CUGGGUG G UGAAUGA	12935	UUAUUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGACCCAG	35220
5559	5471	UGAAUGA G CUCUAUC	12936	GGAUAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCAUUUA	35221
5579	5451	ACGAACAG G UUGUAGU	12937	AACUACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGUUCGU	35222
5582	5448	AGAGGUU G UAGUUGG	12938	CCGAACUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACUGUU	35223
5585	5445	AGGUUGA G UUCGGAC	12939	GUGCCGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UACAACCU	35224
5590	5440	GUAGUUG G CACCCUG	12940	ACUGGUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGAACUAC	35225
5597	5433	GGCACCU G UGAGGAGA	12941	UTUCCTUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGUGCC	35226
5611	5419	AGACUUA G CCUGUGG	12942	CCACAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAUGUCU	35227
5615	5415	AUCAGCU G UGGUGAG	12943	CUCACCCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGUGAU	35228
5619	5411	GCCUGUG G UGAGGUA	12944	UACCCUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCACAGGC	35229
5625	5405	GGUGAGG G UAGCAUG	12945	UCAUGCUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCUCACCC	35230
5628	5402	UGAGGUA G CAUGACAC	12946	GUGUCAUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UACCCUCA	35231
5665	5365	UCCAUUAU G UUCUCUG	12947	CCAGAGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUAUUGGA	35232

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5674	5356	UUUCUGG G CACUGCG	12948	CCGACUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CCAGAGAA	35233
5679	5351	UGGACAU G CGAUGUC	12949	GACAUCCG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AGUGCCCA	35234
5685	5345	UUGCGAU G UCUGGUAC	12950	GUACAGA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AUCCGCGAG	35235
5690	5340	GAUGUCG G UACCGGAU	12951	AUCCGUA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CAGACAUC	35236
5701	5329	CCGGAUG G CAGUCCUC	12952	GAGGACUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CAUCCGG	35237
5704	5326	UUGGGCA G UCCUCUA	12953	UGAGGGA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGCCCAUC	35238
5713	5317	UCCUCUA G UGUUUCAG	12954	CUGAAGCA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGAGAGGA	35239
5715	5315	CUUCAGU G CUUCAGCC	12955	GGCUGAAG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	ACUGAGAG	35240
5721	5309	GUUCUCA G CCAUCUCA	12956	UGAGAUGG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGAAGCAC	35241
5730	5300	CCAUCUA G CAGCCACA	12957	UGUGGCTG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGAGAUGG	35242
5733	5297	UCUCAGCA G CCAACAAC	12958	GGUUGUGG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGCUGAGA	35243
5745	5285	CAACCCUG G UUGGUGCU	12959	AGCACCAA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CAGGGUUG	35244
5749	5281	CTUGGUG G UGCUAGCA	12960	UGCUAGCA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CAACCAGG	35245
5751	5279	UGUUGGU G CUAGCACG	12961	CGUGCUAG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	ACCAACCA	35246
5755	5275	UGUGCUA G CACGGCUG	12962	CAGCGUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UAGCACCA	35247
5760	5270	CUAGCAG G CUGUUCUC	12963	GAGAACAG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CGUGCUAG	35248
5763	5267	GCAGGGU G UUCUCAGU	12964	ACUGAGAA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AGCCGUGC	35249
5770	5260	UGUUCUA G UCUUCUGU	12965	ACAGAAGA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGAGAACA	35250
5777	5253	AGUCUUC G UUAUUGGC	12966	GCCAUAUA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AGAAGACU	35251
5784	5246	UGUUUUG G CCUCUUUG	12967	CAAAGAGG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CAUAAACA	35252
5800	5230	GAUGAUC G UGCGAGAA	12968	UUCUGCCA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AGAUAUC	35253
5803	5227	GAUCUGG G CAGAAUCC	12969	GGAUUCUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CACAGAUC	35254
5817	5213	UCCUCCU G UUUUACCG	12970	CGGUAUAA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AAGGAGGA	35255
5826	5204	UUUACCG G CGCCGGGA	12971	UCCCGGCG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CGGUAAAA	35256
5828	5202	UUACGGC G CCGGGAUG	12972	CAUCCCGG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	GCCGGUAA	35257
5845	5185	GAGAUCCA G UACAGUGA	12973	UCACUGUA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGGAUCUC	35258
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGAUA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGUACUGG	35259
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAAA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AGAUCACU	35260
5869	5161	UUUCCUA G CAUCUCAG	12976	CUGAGAUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UGAGGAAA	35261
5878	5152	CAUCUCAG G UUGGAUUC	12977	GAUUCGAA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CUGAGAUG	35262
5889	5141	CGAAUCCG G CUGGGAU	12978	AAUCCAG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CGGAUUCG	35263
5899	5131	UGGGAUUG G CUCAUCCA	12979	UGGAUGAG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CAAUCCCA	35264
5920	5110	UUCACCCU G CCAUAUCG	12980	CGAUAUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AGGGUGAA	35265
5928	5102	GCAUAUC G CGCUUAUG	12981	CAUAAGCG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	GAUAGUGC	35266
5930	5100	ACUAUCCG G CUUAUGUA	12982	UACUAUAG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	GCGAUAUG	35267
5936	5094	GGCUUAU G UAUAGACC	12983	GGCUCAUA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AUAAGCGC	35268
5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACGG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	UCAUAACU	35269
5945	5085	UUAAGCC G UUGGGCAU	12985	AUGCCCAA	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	GGCUCAUA	35270
5950	5080	GCGUUGG G CAUAUGA	12986	UCAUAUG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	CCAACGGC	35271
5966	5064	ACUCCAUG G CCAUAAAG	12987	CUUAUUGG	GGAGGAAACUCCUUCAGGACAUUCGUCGGG	AUUGGAGU	35272

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5974	5056	GCACUAAA G CCCAUCA	12988	UGAUUGGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUAUAGGC	35273
5990	5040	ACAUCACC G UUUUUGUC	12989	GACAAAAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGUGAUGU	35274
5996	5034	CGUUUUU G UCCACUAA	12990	AUAGUGGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AAAAACGG	35275
6007	5023	CACUAUUG G UGAGCCUG	12991	CAGGCUCA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAUAUAGUG	35276
6011	5019	AUUGUGA G CCUGAUGU	12992	ACAUGGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UCACCAAU	35277
6018	5012	AGCCUGAU G UUCAGUG	12993	CACUGGAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AUCAGGCU	35278
6024	5006	AUGUCCA G UGGGGAAG	12994	CUUCCCCA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UGGAACAU	35279
6032	4998	GUGGGAA G UCCAAAGU	12995	ACUUUGGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUCGCCAC	35280
6039	4991	AGUCCAAA G UCACGGCC	12996	GGCCGUGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUUUGGACU	35281
6045	4985	AAGUCAG G CCCGAAU	12997	AAUCGGGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CGUGACUU	35282
6064	4966	UCCUUCAG G UGUUUUGA	12998	UCAAAAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CUGAAGGA	35283
6066	4964	CUUCAGGU G UUUUGAAC	12999	GUUCAAAG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG ACCUGAAG	35284
6082	4948	CACCCUG G UUUCGUCU	13000	AGACGAAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAGGGGUG	35285
6087	4943	CUGGUUUC G UUCGGACG	13001	CGUCCAGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GAAAACCA	35286
6095	4935	GUGUGAC G UUCUUAAC	13002	GUUUAAGAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GUCCAGAC	35287
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GUUAAGAA	35288
6110	4920	ACGUUCU G CCAGGUUC	13004	GAACUGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AAGAACGU	35289
6115	4915	CUUGCAG G UUCCACCA	13005	UGGUGGAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CUGGCAAG	35290
6133	4897	AAUCAUCU G CACUUAU	13006	AUGAGGUG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGAUGAUU	35291
6145	4885	CUCAUCU G CCGUJUC	13007	GGAAACGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGGAUGAG	35292
6149	4881	UCCUGCC G UUCACUU	13008	AAGUGGAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGGCAGGA	35293
6158	4872	UUCCAU G UGCUGCA	13009	UUGCAGCA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AAGUGGAA	35294
6160	4870	CCAUUGU G CUGCAUU	13010	AAUUGCAG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG ACAAGUGG	35295
6163	4867	CUUGUGU G CAUUUUC	13011	GGAAAUUG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGCACAAG	35296
6175	4855	UUUCCAG G UCCUCGU	13012	ACGGAGGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCUGGAAA	35297
6182	4848	GGUCCUCC G UAACAAG	13013	CUUUGUUA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGAGGACC	35298
6190	4840	GUACAAA G UCGAUCCU	13014	AGGAUCGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUUUUAUAC	35299
6209	4821	UUGACACU G CCCAGUA	13015	UACUGGGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGUGUCA	35300
6215	4815	UGGCCCA G UAUGGUUC	13016	GACCCAU GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UGGGGCAG	35301
6221	4809	CAGUAUG G UCCAGGCG	13017	CGCCUGGA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCAUACUG	35302
6227	4803	GGGUCCAG G CGGCCUUC	13018	GAGGGCCG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CUGGACCC	35303
6230	4800	UCCAGCG G CCCUUC	13019	GGAGAGGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CGCCUGGA	35304
6239	4791	CCCUCUCC G CUCAUCAA	13020	UUGAUGAG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGAGAGGG	35305
6249	4781	UCAUCAA G CGGCUCCU	13021	AGGAGCCG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUUUAUGA	35306
6252	4778	UCAAAGCG G CUCCUUUU	13022	AAAAGGAG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CGCUUUGA	35307
6261	4769	CUCCUUUU G UUGUAUGC	13023	GCAUACAA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AAAAGGAG	35308
6264	4766	CUUUUUU G UAUGCCAA	13024	UUGGCAUA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AACAAAAAG	35309
6268	4762	UGUUGAU G CCAAAGGG	13025	CCCUUUGG GAGGAAAACUCCCUCAAGGACAUCGUCCGGG AUACAACA	35310
6276	4754	GCCAAAGG G UGUGGAAA	13026	UUUCCACA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCUUUGGC	35311
6278	4752	CAAAGGU G UGGAAGAC	13027	GUUUUCCA GAGGAAAACUCCCUCAAGGACAUCGUCCGGG ACCCUUUG	35312

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6302	4728	ACCAUAC G CCGCUCC	13028	GGAGCGG GGAGGAAACUCCUUAAGGACAUUCGCGG GUGAUGU	35313
6306	4724	UCACGCC G CUCCUGU	13029	AGCAGGAG GGAGGAAACUCCUUAAGGACAUUCGCGG GGGCGUGA	35314
6312	4718	CCGCUCCU G CUUGAUA	13030	UUAUCAAG GGAGGAAACUCCUUAAGGACAUUCGCGG AGGAGCGG	35315
6323	4707	UGAUAACU G CCGAGCAG	13031	CUGCUCG GGAGGAAACUCCUUAAGGACAUUCGCGG AGUUAUCA	35316
6328	4702	ACUGCGG G CAGCCAC	13032	GUGGGCUG GGAGGAAACUCCUUAAGGACAUUCGCGG UCGGCAGU	35317
6331	4699	GCCGAGCA G CCGAGAG	13033	CUCUGGG GGAGGAAACUCCUUAAGGACAUUCGCGG UGCUCGGC	35318
6339	4691	GCCACAGA G UCAUGAUC	13034	GAUCAUG GGAGGAAACUCCUUAAGGACAUUCGCGG UCGUGGBC	35319
6350	4680	AUGAUCCU G UAGACGCC	13035	GGCGUCUA GGAGGAAACUCCUUAAGGACAUUCGCGG AGGAUCAU	35320
6356	4674	CUGUAGAC G CCGGUGGU	13036	ACCACCG GGAGGAAACUCCUUAAGGACAUUCGCGG GUCUACAG	35321
6360	4670	AGACGCC G UGGUCGUG	13037	CACGACCA GGAGGAAACUCCUUAAGGACAUUCGCGG CGGCGUCU	35322
6363	4667	GCAGGUG G UCGUUGU	13038	GGACACGA GGAGGAAACUCCUUAAGGACAUUCGCGG CACCGGCG	35323
6366	4664	CGUGGUG G UGUCCCC	13039	GGGGACA GGAGGAAACUCCUUAAGGACAUUCGCGG GACCACCG	35324
6368	4662	GUGGUGU G UCCCCUU	13040	AAGGGGA GGAGGAAACUCCUUAAGGACAUUCGCGG ACGACCAC	35325
6380	4650	CCUUUUU G UACUCCUU	13041	AAGGAGUA GGAGGAAACUCCUUAAGGACAUUCGCGG AAAAAGGG	35326
6391	4639	CUCCUUU G UGAGGAG	13042	CUCCUCA GGAGGAAACUCCUUAAGGACAUUCGCGG CAAAGGAG	35327
6399	4631	GUGAGGA G UGUCCAC	13043	GUGGGACA GGAGGAAACUCCUUAAGGACAUUCGCGG UCCUCAC	35328
6401	4629	GAGGAGU G UCCACAA	13044	UUGUGGA GGAGGAAACUCCUUAAGGACAUUCGCGG ACUCCUC	35329
6413	4617	CACACAC G CCUCUCU	13045	AGAGGGA GGAGGAAACUCCUUAAGGACAUUCGCGG GUGUUGUG	35330
6426	4604	CUCUCUU G UGUUUGG	13046	CCAAUACA GGAGGAAACUCCUUAAGGACAUUCGCGG AAAGAGAG	35331
6428	4602	CUUUUUU G UAUUGAG	13047	CUCCAAUA GGAGGAAACUCCUUAAGGACAUUCGCGG ACAAAAGAG	35332
6438	4592	AUUGAGA G UUAUCCAA	13048	UUGGAUA GGAGGAAACUCCUUAAGGACAUUCGCGG UCUCCAAU	35333
6463	4567	UACUGAG G CAAGAUUG	13049	CAAUUUG GGAGGAAACUCCUUAAGGACAUUCGCGG CCUCAGUA	35334
6471	4559	GCAAGUU G CCCAGGG	13050	CCCCUGG GGAGGAAACUCCUUAAGGACAUUCGCGG AAUCUUGC	35335
6480	4550	CCCAGGG G UGUACGA	13051	UGCGUACA GGAGGAAACUCCUUAAGGACAUUCGCGG CCCCUGG	35336
6482	4548	CAGGGGU G UACGCACU	13052	AGUGCGUA GGAGGAAACUCCUUAAGGACAUUCGCGG ACCCCUG	35337
6486	4544	GGGUGUAC G CACUAAUC	13053	GAUUAUG GGAGGAAACUCCUUAAGGACAUUCGCGG GUACACCC	35338
6495	4535	CACUAUC G CGAGACAG	13054	CUGUCUG GGAGGAAACUCCUUAAGGACAUUCGCGG GAUUAUG	35339
6514	4516	CAUUCUG G CAUCCAU	13055	UAUGGAU GGAGGAAACUCCUUAAGGACAUUCGCGG UCAGAAUG	35340
6532	4498	CUCCAAAG G UGUCCUG	13056	CAGGAGCA GGAGGAAACUCCUUAAGGACAUUCGCGG CUUGGAAG	35341
6534	4496	UCCAGGU G CUCCUGGA	13057	UCCAGGAG GGAGGAAACUCCUUAAGGACAUUCGCGG ACCUUGGA	35342
6553	4477	AUUAUGA G CUGGAAGU	13058	ACUCCAG GGAGGAAACUCCUUAAGGACAUUCGCGG UCAUGAAU	35343
6560	4470	AGCUGGA G UUUCCAU	13059	GAUGGAA GGAGGAAACUCCUUAAGGACAUUCGCGG UUCAGAU	35344
6577	4453	AUCAUA G CCGCACAU	13060	AUGUGCG GGAGGAAACUCCUUAAGGACAUUCGCGG UUGAUGAU	35345
6580	4450	AUCAACC G CACUCAA	13061	UUGAUGU GGAGGAAACUCCUUAAGGACAUUCGCGG GGCUGAU	35346
6596	4434	ACUCUUC G CUCAGCC	13062	GGCUCGAG GGAGGAAACUCCUUAAGGACAUUCGCGG GAAAGAGU	35347
6602	4428	UCGUGCA G CCUGUAU	13063	AUUACAG GGAGGAAACUCCUUAAGGACAUUCGCGG UCGAGCGA	35348
6606	4424	UCGAGCU G UAAUUAU	13064	AGAAUUA GGAGGAAACUCCUUAAGGACAUUCGCGG AGGCUUGA	35349
6615	4415	UAAUUCU G CAUCACUU	13065	AAGUGAU GGAGGAAACUCCUUAAGGACAUUCGCGG AGAAAUUA	35350
6635	4395	CAGGAUU G UCCGCGU	13066	ACGGCGGA GGAGGAAACUCCUUAAGGACAUUCGCGG AUUCCUG	35351
6639	4391	AAUUGUC G CCGUUCU	13067	GAGAACGG GGAGGAAACUCCUUAAGGACAUUCGCGG GGAUUAU	35352

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6642	4388	UGUCCGCC G UUCUCUA	13068	UGAGAGAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG GCGGGACA	35353
6663	4367	ACAUAUCU G UUGAUUUC	13069	GAUAUCAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG AGAUUUGU	35354
6687	4343	UCACGAAA G CAGCAAC	13070	GUUUGCUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UUUCGUGA	35355
6690	4340	CGAAAGCA G CAAACAU	13071	CAUGUUUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGCUUUUG	35356
6700	4330	AAACUGA G CCCCUGA	13072	UCGCGGGG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UCAUGUUU	35357
6705	4325	UGAGCCCG G CGAUAGUC	13073	GACUAUCG GGAGGAAA CUCUUAAGGACAUCGUCCCGG GGGGCUCA	35358
6711	4319	CGCGAUA G UCAUUGA	13074	UCCAAUGA GGAGGAAA CUCUUAAGGACAUCGUCCCGG UAUCGCGG	35359
6723	4307	UUGGAUG G CCAUGGAG	13075	CUCCAUUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG CAUUCCAA	35360
6731	4299	GCCAUGA G UCAUUGUC	13076	GACAUTGA GGAGGAAA CUCUUAAGGACAUCGUCCCGG UCCAUGGC	35361
6737	4293	GAGUCAU G UCAAGCUC	13077	GAGCUUGA GGAGGAAA CUCUUAAGGACAUCGUCCCGG AUUGACUC	35362
6742	4288	AUUGCAA G CUCUGCCA	13078	UGGCAGAG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UUGACAUU	35363
6747	4283	CAAGCUCU G CCAGCCU	13079	AGGCTUGG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AGAGCTUG	35364
6751	4279	CUCUGCCA G CCCUCCGA	13080	UCGGAGGG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGGCAGAG	35365
6765	4265	CGACGUA G CAAACAU	13081	AAUGUUUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG CAUCGUCG	35366
6776	4254	AACAUUAG G CCGACAGC	13082	GCUGUCUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG CUAAUUGU	35367
6783	4247	GGCCGACA G CUGUCAUC	13083	GAUGACAG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGUCGGCC	35368
6786	4244	CGACAGCU G UCAUCACU	13084	AGUGAUGA GGAGGAAA CUCUUAAGGACAUCGUCCCGG AGCUGUCG	35369
6798	4232	UCACUUA G UUGCGGGC	13085	GCCCAGAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGAAGUGA	35370
6801	4229	CUUCAGUU G CCGGCCAU	13086	AUGGCCCG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AACUGAAG	35371
6805	4225	AGUUGGG G CCAUCCGC	13087	GCGGAUGG GGAGGAAA CUCUUAAGGACAUCGUCCCGG CCGCAACU	35372
6812	4218	GGCCAUC G CGUUUACG	13088	CGUAAACG GGAGGAAA CUCUUAAGGACAUCGUCCCGG GGAUGGCC	35373
6814	4216	CGAUCGC G UUUACGGU	13089	ACCGUAAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG GCGGAUUG	35374
6821	4209	GUUUUACG G UUGGGAUC	13090	GAUCCCAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG CGUAAACG	35375
6834	4196	GAUCAAU G CAAUCAGU	13091	ACUGAUUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AUGUGAUC	35376
6841	4189	UGCAUUA G UCCAGCAG	13092	CUGCUGGA GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGAUUGCA	35377
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCUUGCUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGGACUGA	35378
6849	4181	GUCCAGCA G CAAGGAUC	13094	GAUCCUUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGCUGGAC	35379
6863	4167	AUCAUGGG G UUGAAAAG	13095	CUUUUCAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG CCCAUGAU	35380
6871	4159	GUUGAAA G UCCUGUUG	13096	CAACAGGA GGAGGAAA CUCUUAAGGACAUCGUCCCGG UUUUCAAC	35381
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCUCAA GGAGGAAA CUCUUAAGGACAUCGUCCCGG AGGACUUU	35382
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCUCUAG GGAGGAAA CUCUUAAGGACAUCGUCCCGG CUCAACAG	35383
6888	4142	AGGCUAGA G CCAAGCAU	13099	AUGCUUGG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UCUAGCCU	35384
6893	4137	AGAGCCAA G CAUAGCAG	13100	CUGCUAUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UUGGCTUCU	35385
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGUCUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UAUUCUUG	35386
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAGGAG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AAGUCUGC	35387
6921	4109	UCUUUUUU G CAGCUGCA	13103	UGCAGCUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AAAAAAGA	35388
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGUGCAG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UGCAAAAA	35389
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGUG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AGCUGCAA	35390
6950	4080	CUGAUCAA G CUGCCUUA	13106	AUAGGCAG GGAGGAAA CUCUUAAGGACAUCGUCCCGG UUGAUUCAG	35391
6953	4077	AUCAAGCU G CCUAUUC	13107	GGAAUAGG GGAGGAAA CUCUUAAGGACAUCGUCCCGG AGCUUGAU	35392

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6973	4057	CAUCAACA G CAGUAUCC	13108	GGAUACUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGUUGAUG	35393
6976	4054	CAACAGCA G UAUCUGU	13109	ACAGGAUA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGCUGUUG	35394
6983	4047	AGUAUCCU G UACACAUC	13110	GAUGUGUA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AGGAUACU	35395
7001	4029	AGAUCAA G CAUCUCAG	13111	CUGAGAUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UUGAAUCU	35396
7009	4021	GCAUCUA G CCGCGGUG	13112	CACCCGGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGAGAUGC	35397
7015	4015	CAGCCGG G UGUUAGCA	13113	UGCUAACA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CCGGGCUG	35398
7017	4013	GCCCGGUG G UUAGCAGG	13114	CCUGCUAA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG ACCCGGGC	35399
7021	4009	GGUGUUA G CAGGCUA	13115	UAGCCUUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UAAACACCC	35400
7026	4004	UUAGCAG G CUAGCAGC	13116	GUGCUUAG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CCUGCUAA	35401
7030	4000	CAGGCUA G CAGCGGAA	13117	UUCGCGUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UAGCCUG	35402
7033	3997	GGCUAGCA G CGGACAA	13118	UUGUCCG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGCUAGCC	35403
7046	3984	ACAACAC G UUUGAUGU	13119	ACAUCAAA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GUGGUUGU	35404
7053	3977	CGUUUGU G UCGUUGUG	13120	CACAACGA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AUCAAACG	35405
7056	3974	UUGAUGC G UUGUGAAU	13121	AUUCACAA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GACAUCAA	35406
7059	3971	AUGUGGU G UGAAUGUU	13122	AACAUTCA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AACGACAU	35407
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCAUAA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AUUCACAA	35408
7071	3959	AUGUUAU G CUUCAGU	13124	ACUGAGAG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CAUAAACAU	35409
7078	3952	GGCUCUA G UAUCAUCC	13125	GGAUGAUA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGAGAGCC	35410
7089	3941	UCAUCA G CUACGCCC	13126	GGCGUAG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UUGGAUGA	35411
7095	3935	AAGCUAC G CCAGUGAA	13127	UUCACUGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GGUAGCUU	35412
7099	3931	UACCGCA G UGAUUUA	13128	UGAAUUA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGGCGGUA	35413
7129	3901	CUCCAGA G CAGAAUU	13129	AAAUUCUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UCUGGGAG	35414
7139	3891	AGAAUUG G CGGCAUC	13130	GAUGCCCG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CAAAUUCU	35415
7143	3887	UUUGCGG G CAUCUGA	13131	UCACGAUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CCGCCAAA	35416
7148	3882	CGGCAUC G UGAUAAGC	13132	GCUAUCA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GAUGCCCG	35417
7155	3875	CGUGAUA G CCAUUGA	13133	UCAAUUG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UUAUCACG	35418
7173	3857	AGAAACA G CCGCAAC	13134	GUUGCGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UGUUUUCU	35419
7176	3854	AAACAGC G CCAACAUC	13135	GAUGUUGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GGCUGUUU	35420
7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AUUUUGUU	35421
7202	3828	UUCUCCUG G UUGGUCCA	13137	UGGACCAA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CAGGAGAA	35422
7206	3824	CCUGGUU G UCCAUCUC	13138	GAGAUGGA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CAACCAGG	35423
7215	3815	UCCAUCU G CUUUGAGA	13139	UCUCAAG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GAGAUGGA	35424
7230	3800	GAACCAU G CCACCAUA	13140	UAUGGUGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AUCGUUUC	35425
7246	3784	AAACACU G UUGUAUCU	13141	AGAUAACA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CAGUUGUU	35426
7249	3781	CACUGGU G UAUCUGA	13142	UCAAGAUA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG AACCAGUU	35427
7260	3770	UCUUGAG G UCGCCAUG	13143	CAUGGCGA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG CUUCAAGA	35428
7263	3767	UGAAGUC G CCAUGAGC	13144	GCUCAUGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GACCUUCA	35429
7270	3760	CGCCAUA G CGCCAAGU	13145	ACUUGGCG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UCAUGGCG	35430
7272	3758	CCAUGAG G CCAUGUGU	13146	ACACUUGG GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG GCUCAUGG	35431
7277	3753	AGCGCAA G UGUACCAC	13147	GUGGUACA GGAGGAAACUCCUUAAGGACCAUUCGUCGCGG UUGGCGCU	35432

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7279	3751	CGCAAGU G UACACAGU	13148	ACGUGGUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG ACUUGGCG	35433
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG GUGGUACA	35434
7308	3722	UAGAUUCU G CGAAAGCU	13150	AGCUUUCG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AGAAUCUA	35435
7314	3716	CUGCGAAA G CUGCCCC	13151	GGGGGCGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UUUCGCG	35436
7317	3713	CGAAAGCU G CCCCACCC	13152	GGUGGGGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AGCUUUCG	35437
7337	3693	AUGACAUA G CGUAACAC	13153	GUGUUAACG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UAUGUCAU	35438
7339	3691	GACAVAGC G UACACAU	13154	AUGUGUUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG GCUAUGUC	35439
7350	3680	ACACAUA G UGUAGUA	13155	UACUUAUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UGAUGUGU	35440
7352	3678	ACAUGAU G UAGUAAU	13156	AUUAUAUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG ACUGAUGU	35441
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCAUUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UUAACACUG	35442
7361	3669	UARGUAU G CCCCACAA	13158	UUUGGGGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AUUAACUA	35443
7381	3649	CAGGACUA G CAGAGCAA	13159	UUGCUCUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UAGUCCUG	35444
7386	3644	CUAGCAGA G CAUUCAGU	13160	ACUGAUUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UCUGCUAG	35445
7393	3637	AGCAUAUA G UAUAGCUG	13161	CAGCUAUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UGAUTUGU	35446
7398	3632	UCAGUAUA G CUGGCAUG	13162	CAUGCCAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UAUACUGA	35447
7402	3628	UAUAGCUG G CAUGCUGA	13163	UCAGCAUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CAGCUAUA	35448
7406	3624	GCUGGCAU G CUGAUUCU	13164	AAGAUCAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AUGCCACG	35449
7416	3614	UGAUUCUG G CUGUCCAC	13165	GUGGACAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CAAGAUA	35450
7419	3611	UCUUGGCU G UCCACCUU	13166	GAGGUGGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AGCCAAGA	35451
7430	3600	CACUCUCU G CGAAGGAC	13167	GUCCUUCG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AAGAGGUG	35452
7446	3584	CCUCCUGG G UGGCCAAAG	13168	CUUGGCCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CCAGGAGG	35453
7449	3581	CCUGGGUG G CCAAGAAC	13169	GUUCUUGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CACCCAGG	35454
7469	3561	ACCAGAGG G CCAACUUG	13170	CAGUUGGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CUUCUGGU	35455
7484	3546	UGAAAGG G UCAAUCAU	13171	AUGAUUGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CCUUUUCA	35456
7497	3533	UCAUAUA G CAUUAUA	13172	UUUAUAUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UGAUAUGA	35457
7506	3524	CAUUAUA G CAUUCACU	13173	AGUGAAUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UUAUAUG	35458
7516	3514	AUUCACUU G UGACUGCA	13174	UGCAGUCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AAGUGAAU	35459
7522	3508	UUGUGACU G CACGAGGG	13175	CCUUCGUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AGUCACAA	35460
7530	3500	GCACGAGG G UCUUUUA	13176	UGAAAAGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CTUCGUGC	35461
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AUGAUGAA	35462
7549	3481	AUGUCUCU G UGGUCUGA	13178	UCAGACCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGACAU	35463
7552	3478	UCUCUGUG G UCUGAUUU	13179	AGAUCAGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CACAGAGA	35464
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UGUUGGUA	35465
7580	3450	CAACGCC G CUGUCAGU	13181	ACUGACAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG GGCUGUUG	35466
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAAACUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG AGCGGUGG	35467
7587	3443	CGCUGUCA G UUUGUUG	13183	CUAACCAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UGACAGCG	35468
7592	3438	UCAGUUUG G UAGCGCAG	13184	CUGCGCUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG CAAACUGA	35469
7595	3435	GUUGGUA G CGCAGUGG	13185	CCACUGCG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UACCAAAC	35470
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCAUUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG GCUACCAA	35471
7600	3430	GUAGCGCA G UGGUGUA	13187	UACCACCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCGCGG UGCGCUAC	35472

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7603	3427	GCGCAGUG G UGGUAAGG	13188	CCUUAACCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CACUUGCGC	35473
7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCUUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CACCACUG	35474
7611	3419	GUGGUAAG G UGCAGCUC	13190	GAGCUGCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUUACCAC	35475
7613	3417	GGUAAGGU G CAGCUCCU	13191	AGGAGCUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACCUUAAC	35476
7616	3414	AAGGUGCA G CUCCUGCA	13192	UGCAGGAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGCACCCU	35477
7622	3408	CAGCUCU G CAGCACCA	13193	UGGUGCUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG AGGAGCUG	35478
7625	3405	CUCCUGCA G CACCAUAC	13194	GAUUGGUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGCAGGAG	35479
7635	3395	ACCAUUCU G UUAUACAC	13195	GAUUGAUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AGAUUGGU	35480
7649	3381	AACUJUCC G CUCUCUGU	13196	ACAGAGAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG GGAAAGUU	35481
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AGAGAGCG	35482
7659	3371	UCUCUGUG G UGGUGCGA	13198	UGGCACCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CACAGAGA	35483
7662	3368	CUGUGGUG G UGCAGUG	13199	CACUCGCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CACCACAG	35484
7664	3366	GUGGUGGU G CGAGUGGC	13200	GCCACUCG GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACCACCAC	35485
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACUUGCCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGCACCCA	35486
7671	3359	UGCAGUG G CAGGUCCA	13202	UGGACCUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG CACUCGCA	35487
7675	3355	AGUGGAG G UCCACGGU	13203	ACCGUGGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUGCCACU	35488
7682	3348	GGUCCAGG G UGUCCGCA	13204	UGCGGACA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CGUGGACC	35489
7684	3346	UCCACGGU G UCCGCGAG	13205	GCUGCGGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACCUGGA	35490
7688	3342	CGGUGUCC G CAGCUCUC	13206	GAGAGCUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG GGACACCG	35491
7691	3339	UGUCCGCA G CUCUCACU	13207	AGUGAGAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGCGGACA	35492
7704	3326	CACUCAGG G UGACCGUA	13208	UACGGUCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CCUGAGUG	35493
7710	3320	GGUGAGCC G UAGUUCU	13209	AGGAACUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GGUCACCC	35494
7713	3317	UGACCGUA G UUCUGGG	13210	CCCAGGAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UACGGUCA	35495
7721	3309	GUUCCUGG G CAGUAAUC	13211	GAUUAACUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG CCAGGAAC	35496
7724	3306	CCUGGCA G UAUCCGAA	13212	UUCGAUUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGCCCAGG	35497
7733	3297	UAUCCGAA G UCAUUCUC	13213	GAGAUAUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UUCGAUUA	35498
7748	3282	UCUACCGG G CCUUCGUC	13214	GACGAAGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG CGGGUAGA	35499
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCAUGGGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GAAGGCCG	35500
7763	3267	UCCCAUGG G CCCUGGUU	13216	AACCAGGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG CCAUUGGA	35501
7769	3261	GGGCCUUG G UUUUGUGU	13217	ACACAAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CAGGGCCC	35502
7774	3256	CUGGUUUU G UGUCUUGU	13218	ACAAGACA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AAACCCAG	35503
7776	3254	GGUUUGU G UCUUGUAC	13219	GUACAAGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACAAAACC	35504
7781	3249	UGUGUCUU G UACCCAGG	13220	CCUGGGUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AAGACACA	35505
7789	3241	GUACCCAG G UUCUCCAU	13221	AUCGGAGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUGGGUAC	35506
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAUUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AUUCGGAG	35507
7805	3225	UUGUGAUU G CUUCUGGG	13223	CCACGAAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG AAUCACAA	35508
7810	3220	AUUGUCUC G UGGUCCCG	13224	CGGGACCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GAAGCAAU	35509
7813	3217	GUUCUGUG G UCCCGCCA	13225	UGGCGGGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CACGAAGC	35510
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACACUGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG GGGACCAC	35511
7822	3208	UCCCGCCA G UUGAGUCG	13227	CAGUCACA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGGCGGGA	35512

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7824	3206	CCGCCAGU G UGACUGGU	13228	ACCAGUCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACUGGCGG	35513
7831	3199	UGUGACUG G UAUUAUCA	13229	UGAUUAUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CAGUCACA	35514
7841	3189	AUAUAUA G UCACUCUC	13230	GAGAGUGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UUGAUAAU	35515
7862	3168	AUCCAUC G CCCACAA	13231	UUGUGGGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG GAUGGAU	35516
7872	3158	CCCACAG G UAUGGUC	13232	GACGCAUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUUGUGGG	35517
7876	3154	CAAGUAU G CGUCACG	13233	CUGAGACG GGAGGAAACUCCUUAAGGACAUUGUCCGGG AUACCUUG	35518
7878	3152	AGGUAUG G UCUCAGGC	13234	GCCUGAGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GCAVACCU	35519
7885	3145	CGUCACG G CCACGUAC	13235	GUACGUGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUGAGACG	35520
7890	3140	CAGGCAC G UACAUUAU	13236	AUCAUGUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GUGGCCUG	35521
7917	3113	CCAGAUA G CCCUUAU	13237	UGAAAGGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG AGUUCUGG	35522
7927	3103	CCUUAUA G CUUCCACG	13238	CGUGGAAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UUGAAAGG	35523
7935	3095	GCUUCCAC G UAUCAUUG	13239	CAAUGAUA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GUGGAAGC	35524
7945	3085	AUCAUUA G CCUGCUUU	13240	AAAGCAGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UCAUAUAU	35525
7949	3081	UUGAGCU G CUUUAUAU	13241	AUUGAAAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG AGGCUCAA	35526
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGUGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUGUCCUA	35527
7976	3054	AGGUCACU G UGGAUCGC	13243	GCGAUCCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AGUGACCU	35528
7983	3047	UGUGAUC G CCAAGUUG	13244	CAACUUGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG GAUCCACA	35529
7988	3042	AUGGCCAA G UUGUUCUU	13245	AAGAACA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UUGGCGAU	35530
7991	3039	GCCAAAGU G UUCUUGAC	13246	GUCAAGAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AACUUGGC	35531
8001	3029	UCUUGACA G CCGUUCUA	13247	UGGAACGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGUAAGA	35532
8004	3026	UGACAGCC G UUCCAAUG	13248	CAUUGGAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG GGCUGUCA	35533
8021	3009	AUCUUGA G UCACAUUC	13249	GAAUGUGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UCGAAGAU	35534
8031	2999	CACAUUA G UUGUGUUG	13250	CAACACAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UGAAUGUG	35535
8034	2996	AUCAGUU G UGUUGCUC	13251	GAGCAACA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AACUGAAU	35536
8036	2994	UCAGUUGU G UUGCUCUC	13252	GAGAGCAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACAACUGA	35537
8039	2991	GUUGUUGU G UCUCUCUC	13253	AGAGAGAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG AACACAAC	35538
8067	2963	ACAUCGA G UGUGUGUG	13254	CACCAGCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UCGGAUGU	35539
8069	2961	AUCCAGU G CUGGUGAG	13255	CUCACCAG GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACUCGGAU	35540
8073	2957	GAGUGCUG G UGAGACCA	13256	UGGUCUCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CAGCACUC	35541
8105	2925	ACUUCUA G CUAUCCA	13257	UGGAUAUG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UUAAGAAGU	35542
8115	2915	UAUCCNA G CGCAUUC	13258	GAAUCGGG GGAGGAAACUCCUUAAGGACAUUGUCCGGG UUGGAUAU	35543
8117	2913	UUCACAGC G CGAUUCUG	13259	CAGAAUCG GGAGGAAACUCCUUAAGGACAUUGUCCGGG GCUUGGAA	35544
8127	2903	GAUUCUGA G UCGGACAU	13260	AUUGCCGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UCAGAAUC	35545
8142	2888	AUCCUUG G UCUCCGGA	13261	UCCGGAGA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CAAGGAU	35546
8166	2864	CCACAAG G UGUUGUUG	13262	CAACAACA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CUUUGUGG	35547
8168	2862	ACAAAGU G UUGUUGGC	13263	GCCACAAC GGAGGAAACUCCUUAAGGACAUUGUCCGGG ACCUUUGU	35548
8171	2859	AAGGUGU G UUGGCGAG	13264	CUCGCCAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG AACACCUU	35549
8175	2855	UGUUGUG G CGAUUUCU	13265	AGAAACUC GGAGGAAACUCCUUAAGGACAUUGUCCGGG CAACAACA	35550
8179	2851	GUUGGGA G UUCUGGUG	13266	CACCAGAA GGAGGAAACUCCUUAAGGACAUUGUCCGGG UCGCCAAC	35551
8185	2845	GAGUUCUG G UGCAUAUA	13267	UAUUGCA GGAGGAAACUCCUUAAGGACAUUGUCCGGG CAGAACTC	35552

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8187	2843	GUUCUGU G CAAUAAA	13268	UUUAUUG GGAGGAAACUCCUUAAGGACAUUCUCCGG ACCAGAAC	35553
8211	2819	UUCUCCAG G CUUCCAG	13269	CUGGAAG GGAGGAAACUCCUUAAGGACAUUCUCCGG CUGGGGAA	35554
8219	2811	GCCUCCA G CCAAUUC	13270	GAAUUG GGAGGAAACUCCUUAAGGACAUUCUCCGG UGGAAGGC	35555
8238	2792	AUUUUC G UGUGGG	13271	CGCCACCA GGAGGAAACUCCUUAAGGACAUUCUCCGG GGAATAU	35556
8241	2789	UUUCCUG G UGCGGUG	13272	CACCGCCA GGAGGAAACUCCUUAAGGACAUUCUCCGG CACGGAAA	35557
8244	2786	CCGUGUG G CGGUGAG	13273	CCUCACCG GGAGGAAACUCCUUAAGGACAUUCUCCGG CACACACG	35558
8247	2783	UGGUGGG G UGAGGCG	13274	ACGCCUA GGAGGAAACUCCUUAAGGACAUUCUCCGG CGCCACCA	35559
8252	2778	GCGUGAG G CGUUUAG	13275	CUAAACG GGAGGAAACUCCUUAAGGACAUUCUCCGG CUACCCG	35560
8254	2776	GUGAGGC G UUUAGGUG	13276	CACCUAA GGAGGAAACUCCUUAAGGACAUUCUCCGG GCCUCACC	35561
8260	2770	GCGUUAG G UGCUACU	13277	AGUCAGCA GGAGGAAACUCCUUAAGGACAUUCUCCGG CUAAACGC	35562
8262	2768	GUUAGGU G CUGACUG	13278	CAAGUCAG GGAGGAAACUCCUUAAGGACAUUCUCCGG ACCUAAAC	35563
8270	2760	GCUGACU G UACAUUC	13279	GGAAUGA GGAGGAAACUCCUUAAGGACAUUCUCCGG AAGUCAGC	35564
8284	2746	UCCUCCU G UUUUCAA	13280	UUGAGAA GGAGGAAACUCCUUAAGGACAUUCUCCGG AGGAGGGA	35565
8306	2724	ACACUAG G UCCACACC	13281	GGUGUGA GGAGGAAACUCCUUAAGGACAUUCUCCGG CUUAGUGU	35566
8331	2699	UCAAAGA G UGUACAG	13282	GCUGACA GGAGGAAACUCCUUAAGGACAUUCUCCGG UCUUUUGA	35567
8333	2697	AAAAGAG G UUCAGCUC	13283	GAGCUGA GGAGGAAACUCCUUAAGGACAUUCUCCGG ACUCUUUU	35568
8338	2692	AGUGUUA G CUGUCCU	13284	AGGACGAG GGAGGAAACUCCUUAAGGACAUUCUCCGG UGAACACU	35569
8342	2688	UUCAGUC G UCCUUCAC	13285	GUGAAGGA GGAGGAAACUCCUUAAGGACAUUCUCCGG GAGCUGAA	35570
8352	2678	CCUACAC G CUUCCAC	13286	GUGGGAAG GGAGGAAACUCCUUAAGGACAUUCUCCGG AGUGAAGG	35571
8368	2662	CAUUUAG G CUCCAGUC	13287	GACUGGAG GGAGGAAACUCCUUAAGGACAUUCUCCGG AUCAAAUG	35572
8374	2656	AUGUCCA G UCUGGAA	13288	UUUCCAGA GGAGGAAACUCCUUAAGGACAUUCUCCGG UGGAGCAU	35573
8389	2641	AACUGAC G UAGACGC	13289	GCGGUCUA GGAGGAAACUCCUUAAGGACAUUCUCCGG GAUCAGUU	35574
8396	2634	CGUAGAC G CACACUC	13290	GGAGUGUG GGAGGAAACUCCUUAAGGACAUUCUCCGG GGUCUACG	35575
8415	2615	CCUUAUG G CUUUCUGA	13291	UCAGAAAG GGAGGAAACUCCUUAAGGACAUUCUCCGG UCAUAAAG	35576
8433	2597	UGAUCUG G CUAGGCCU	13292	AGGCCUAG GGAGGAAACUCCUUAAGGACAUUCUCCGG CAAGAUCU	35577
8438	2592	UUGGCUAG G CCUUGUG	13293	CCACAAG GGAGGAAACUCCUUAAGGACAUUCUCCGG CUAGCCAA	35578
8443	2587	UAGGCUU G UGGCGUU	13294	AAACGCCA GGAGGAAACUCCUUAAGGACAUUCUCCGG AAGGCCUA	35579
8446	2584	GCCUUGG G CGUUUCAG	13295	CUGAAACG GGAGGAAACUCCUUAAGGACAUUCUCCGG CACAAGGC	35580
8448	2582	CUUGGGC G UUCACGG	13296	CCCUGAAA GGAGGAAACUCCUUAAGGACAUUCUCCGG GCCACAAG	35581
8456	2574	GUUUCAG G UAAUACUU	13297	AAGUUAUA GGAGGAAACUCCUUAAGGACAUUCUCCGG CCUGAAAC	35582
8465	2565	UAAUACU G UACCGGUC	13298	GACCGGUA GGAGGAAACUCCUUAAGGACAUUCUCCGG AAGUAUUA	35583
8471	2559	UUGUACG G UCCAUCCA	13299	UGGAUGGA GGAGGAAACUCCUUAAGGACAUUCUCCGG CGGUACAA	35584
8481	2549	CCAUCRA G CCUCCACA	13300	UGUGGAGG GGAGGAAACUCCUUAAGGACAUUCUCCGG UUGGAUGG	35585
8495	2535	ACAUCAU G UUAUGAA	13301	UUUAUACA GGAGGAAACUCCUUAAGGACAUUCUCCGG AAUGAUGU	35586
8497	2533	AUCAUUG G UAUGAACA	13302	UUUUAUA GGAGGAAACUCCUUAAGGACAUUCUCCGG ACAUUGAU	35587
8524	2506	ACAUUCA G CUUUGCC	13303	GGCAAGAG GGAGGAAACUCCUUAAGGACAUUCUCCGG UGAGAUU	35588
8530	2500	CAGUCUU G CCGGUGA	13304	UCAGCCGG GGAGGAAACUCCUUAAGGACAUUCUCCGG AAGAGCUG	35589
8534	2496	UCUUGCG G CUGAUGUC	13305	GACAUCAG GGAGGAAACUCCUUAAGGACAUUCUCCGG CGGCAAGA	35590
8540	2490	CGGCUAG G UCUAUGGC	13306	GCCAUAUA GGAGGAAACUCCUUAAGGACAUUCUCCGG AUCAGCCG	35591
8547	2483	UGUCUAG G CACACCA	13307	UGGGUGUG GGAGGAAACUCCUUAAGGACAUUCUCCGG CAUAGACA	35592

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8556	2474	CACACCGA G	UGUCAGCG	13308	CGCUGACA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UGGGUUG	35593
8558	2472	CACCCAGU G	UCAGCGUG	13309	CACGCUGA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	ACUGGGUG	35594
8562	2468	CAGUGUCA G	CGUGCAGG	13310	CGUGCAGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UGACACUG	35595
8564	2466	GUGUCAGC G	UGCAGGUU	13311	AACGUGCA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	GCUGACAC	35596
8566	2464	GUCAGCGU G	CACGUUUA	13312	UAAACGUG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	ACGCUGAC	35597
8570	2460	GCUGACAC G	UUCACGGA	13313	UCCGUGAA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	GUGCACGC	35598
8587	2443	GAGGAGAG G	CAGAACUC	13314	GAGUUCUG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UCUUCUCU	35599
8604	2426	CUCCAACU G	CGAGAAC	13315	GUUUCUCG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AGUUGGAG	35600
8613	2417	CGAGAAC G	UGAGAGCU	13316	AGCUCUCA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	GUUUCUCG	35601
8619	2411	ACGUGAGA G	CUAUGGAC	13317	GUCCAUA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UCUCACGU	35602
8637	2393	UAUCACGA G	CAUUGAUG	13318	CAUCAUUG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UCGUGAUA	35603
8645	2385	GCAUUGAU G	CCCAUCCA	13319	UGGAUUGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AUCAAUUC	35604
8664	2366	ACAGGAGA G	CCCCCAGC	13320	GCUGGGGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UCUCCUGU	35605
8671	2359	AGCCCCCA G	CAAUCCUU	13321	AAGGAUUG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UGGGGGCU	35606
8680	2350	CAAUCCUU G	CGUUAUCC	13322	GGAUUACG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AAGGAUUG	35607
8682	2348	AUCCUUGC G	UUAUCCAG	13323	UUGGAUUA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	GCAAGGAU	35608
8696	2334	CAGGACAU G	CCUCCGAA	13324	UUCGGAGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AUGUCCUG	35609
8707	2323	UCCGACAA G	UGAGCGGA	13325	UCCGCUCA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UGUUCGGA	35610
8711	2319	AACAGUGA G	CGGAUUGC	13326	GCAUUCGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UCACUGUU	35611
8718	2312	AGCGGAU G	CUCCUCCG	13327	CGGAGGAG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AUUCGCGU	35612
8742	2288	GAUGGACA G	CCUUCCCA	13328	UGGGAAGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UGUCCAUC	35613
8757	2273	CAACUGAG G	UGAACACC	13329	GGUGUUA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	CUCAGUUG	35614
8783	2247	GAUCCAAA G	UCCCAAGC	13330	GCUUGGGA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UUUGGAUC	35615
8790	2240	AGUCCCA G	CUGUGUCU	13331	AGACACAG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UUUGGACU	35616
8793	2237	CCCAAGCU G	UGUCUCUU	13332	AGGAGACA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AGCUUUGG	35617
8795	2235	CAAGCUGU G	UCUCCUAG	13333	CUAGGAGA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	ACAGCUTG	35618
8805	2225	CUCCUAGA G	CGGCUAGU	13334	ACTAGCCG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UCUAGGAG	35619
8808	2222	CUAGAGCG G	CUAGUCUC	13335	GAGACUAG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	CGCUUCUAG	35620
8812	2218	AGCGGCUA G	UCUCUGCG	13336	CGCAGAGA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	UAGCCGCU	35621
8818	2212	UAGUCUCU G	CGCUCUUU	13337	AAGGAGCG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AGAGACUA	35622
8820	2210	GUCUCUGC G	CUCCUUUG	13338	CAAAAGGAG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	GCAGAGAC	35623
8832	2198	CUUUGAGG G	UGGUUUA	13339	UACAACCA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	CCUCAAA	35624
8835	2195	UUGGGUUG G	UUGUAAAG	13340	CUUUACAA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	CACCCUCA	35625
8838	2192	GGUGGUUU G	UAAAGGCU	13341	AGCCUUUA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AACCAACC	35626
8844	2186	UUGUAAAG G	CUUUGCCA	13342	UGGCAAGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	CUUUAACA	35627
8849	2181	AAGGCUUU G	CCAAUGCU	13343	AGCAUUGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AAAGCCUU	35628
8855	2175	UUGCCAAU G	CUGCUUCC	13344	GGAAGCAG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AUUGGCAA	35629
8858	2172	CCAAUGCU G	CUUCCAGA	13345	UCUGGAAG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AGCAUUGG	35630
8870	2160	CCAGACUU G	UGCCAAUG	13346	CAUUGGCA	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	AAGUCUGG	35631
8872	2158	AGACUUGU G	CCAAUGGU	13347	ACCAUUGG	GGAGGAAA	CUCUCCUUA	CAAGGACA	UCGUCCGG	ACAAGUCU	35632

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8879	2151	UGCCAAUG G UGAUUGAU	13348	AUCAAUCA GGAGGAAACUCCUUAAGGACAUCGUCCGG CAUUGGCA	35633
8890	2140	AUGAUUCU G UGUUUCUC	13349	GAGAACAA GGAGGAAACUCCUUAAGGACAUCGUCCGG AGAUCAAU	35634
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GGAGGAAACUCCUUAAGGACAUCGUCCGG AACAGAUUC	35635
8903	2127	UUCUCCUC G CCACCAC	13351	GUGGUGGG GGAGGAAACUCCUUAAGGACAUCGUCCGG AGAGGAGA	35636
8915	2115	ACCACUAG G UAUGAGUC	13352	GACUCAUA GGAGGAAACUCCUUAAGGACAUCGUCCGG AUAGUGGU	35637
8921	2109	AUGUAUGA G UCUCCAA	13353	UUUGGAGA GGAGGAAACUCCUUAAGGACAUCGUCCGG UCAUAUAU	35638
8932	2098	UCCAAAGG G UGGUCCA	13354	UUUAACCA GGAGGAAACUCCUUAAGGACAUCGUCCGG CCUUUGGA	35639
8935	2095	AAAGGUG G UUCAAUU	13355	AAUUGGAA GGAGGAAACUCCUUAAGGACAUCGUCCGG CACCCUUU	35640
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAAAC GGAGGAAACUCCUUAAGGACAUCGUCCGG UAAAGGUCC	35641
8960	2070	ACCUVAGC G UUGGCCGU	13357	ACGGCCAA GGAGGAAACUCCUUAAGGACAUCGUCCGG GCUAAGGU	35642
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GGAGGAAACUCCUUAAGGACAUCGUCCGG CAACGCUA	35643
8967	2063	CGUUGGCC G UGGCCACU	13359	AGUGGCCA GGAGGAAACUCCUUAAGGACAUCGUCCGG GGCCAAACG	35644
8970	2060	UGGCCGUG G CCACUGAA	13360	UUCAGUGG GGAGGAAACUCCUUAAGGACAUCGUCCGG CACGGCCA	35645
8987	2043	ACAAAGG G UUGACAGU	13361	ACUGUCAA GGAGGAAACUCCUUAAGGACAUCGUCCGG CCUUUUUGU	35646
8994	2036	GGUUGACA G UGACCAAU	13362	AUUGGUCA GGAGGAAACUCCUUAAGGACAUCGUCCGG UGUCAAAC	35647
9005	2025	ACCAUUCU G CCCACUGG	13363	CCAGUGGG GGAGGAAACUCCUUAAGGACAUCGUCCGG AGAUUUGU	35648
9013	2017	GCCACUG G CGUUAAGU	13364	ACCUAACG GGAGGAAACUCCUUAAGGACAUCGUCCGG CAGUGGGC	35649
9015	2015	CCACUGGC G UUAGGUGC	13365	GCACCUAA GGAGGAAACUCCUUAAGGACAUCGUCCGG GCCAGUGG	35650
9020	2010	GGCGUUG G UCGUUCNA	13366	UUGAACGA GGAGGAAACUCCUUAAGGACAUCGUCCGG CUAAACGCC	35651
9023	2007	GUUAGGUC G UUCAUGA	13367	UCAUUGAA GGAGGAAACUCCUUAAGGACAUCGUCCGG GACCUAAC	35652
9033	1997	UCAUUGAA G CCACUGAC	13368	GUCAGUGG GGAGGAAACUCCUUAAGGACAUCGUCCGG UUCAUUGA	35653
9056	1974	GGAACTUU G CAAGGUCC	13369	GGACCUUG GGAGGAAACUCCUUAAGGACAUCGUCCGG AAAGUUCU	35654
9061	1969	UUUGCAAG G UCCAUCGG	13370	CGGAUGGA GGAGGAAACUCCUUAAGGACAUCGUCCGG CUUGCAAA	35655
9069	1961	GUCCAUC G UGCCAGUG	13371	CACUGGCA GGAGGAAACUCCUUAAGGACAUCGUCCGG GGAUUGAC	35656
9071	1959	CCAUCCGU G CCAGUGUA	13372	UACACUGG GGAGGAAACUCCUUAAGGACAUCGUCCGG ACAGAUUG	35657
9075	1955	CCGUGCCA G UGUACUGC	13373	GCAGUACA GGAGGAAACUCCUUAAGGACAUCGUCCGG UGGCACGG	35658
9077	1953	GUGCCAGU G UACUGCAA	13374	UUGCAGUA GGAGGAAACUCCUUAAGGACAUCGUCCGG ACUGGCAC	35659
9082	1948	AGUGUACU G CAAUUGCA	13375	UGGAUUUG GGAGGAAACUCCUUAAGGACAUCGUCCGG AGUACACU	35660
9099	1931	ACACACA G UGCCUGA	13376	UCACGGCA GGAGGAAACUCCUUAAGGACAUCGUCCGG UGUUGUGU	35661
9101	1929	ACCACAGU G CCGUGACC	13377	GGUACACG GGAGGAAACUCCUUAAGGACAUCGUCCGG ACUGUGGU	35662
9104	1926	ACAGUGCC G UGACCUUG	13378	ACAGGUCA GGAGGAAACUCCUUAAGGACAUCGUCCGG GGCACUGU	35663
9111	1919	CGUGACU G UGUCUGCG	13379	CGCAGACA GGAGGAAACUCCUUAAGGACAUCGUCCGG AGGUCACG	35664
9113	1917	UGACUUGU G UCUGCGGG	13380	CCCGCAGA GGAGGAAACUCCUUAAGGACAUCGUCCGG ACAGGUCA	35665
9117	1913	CUGUGUCU G CGGGAGUC	13381	GACUCCCG GGAGGAAACUCCUUAAGGACAUCGUCCGG AGACACAG	35666
9123	1907	CUUGCGGA G UCCCAAGA	13382	UCUUUGGA GGAGGAAACUCCUUAAGGACAUCGUCCGG UCCCGCAG	35667
9141	1889	ACUUGAAA G CCUUUGAA	13383	UUCAAAGG GGAGGAAACUCCUUAAGGACAUCGUCCGG UUCCAAUG	35668
9155	1875	GAACAGAC G CCAUAGGU	13384	ACCUAUGG GGAGGAAACUCCUUAAGGACAUCGUCCGG GUCUGUUC	35669
9162	1868	CGCCAUG G UUGUUCU	13385	GGGAACAA GGAGGAAACUCCUUAAGGACAUCGUCCGG CUUUGGCG	35670
9165	1865	CAUAGGUU G UUCCCUUC	13386	GAAGGAAA GGAGGAAACUCCUUAAGGACAUCGUCCGG AACCUAUG	35671
9178	1852	CUUCAACU G CAAUUUUU	13387	AAAAAUUG GGAGGAAACUCCUUAAGGACAUCGUCCGG AGUUGAAG	35672

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9219	1811	GACCCGAC G UCAACUUG	13388	CAAGUUGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35673
9231	1799	ACUUGACA G UGUUGCUU	13389	AAGCAACA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35674
9233	1797	UUGACAGU G UUGCUUGA	13390	UCNAGCAA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35675
9236	1794	ACAGUGU G CUUGNAAA	13391	UUUUCAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35676
9258	1772	CAGGAUG G CUCCAGCC	13392	GGCUGGAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35677
9264	1766	UGUCUCA G CCAAAGCU	13393	AGCUUUGG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35678
9270	1760	CAGCCAAA G CUUGAUGC	13394	GCAUCAAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35679
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCUCUG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35680
9282	1748	GAUUCAGA G CUCCUCU	13396	AGAGGGAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35681
9292	1738	UCCUCUU G UGAGCCCA	13397	UGGGCUCA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35682
9296	1734	UCUUGUA G CCCAUGC	13398	GCAUUGGG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35683
9303	1727	AGCCCAAU G CUAUCACA	13399	UGUGAUAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35684
9316	1714	CACAGACU G CUUCGUGG	13400	CCACGAAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35685
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35686
9324	1706	GUUCGUG G CGUGUGGU	13402	AGCACACG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35687
9326	1704	UUCGUGGC G UGUGGUUC	13403	GAAACCACA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35688
9328	1702	CGUGGCGU G UGGUUCUU	13404	AGGAACCA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35689
9331	1699	GGCGUGUG G UUCUCNAA	13405	UTGAGGAA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35690
9351	1679	CCAUUAC G UCUCUCUG	13406	CAGAGAGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35691
9359	1671	GUCUCUCU G UUCUCCA	13407	UGGAGGAA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35692
9372	1658	UCCACACA G UACUJCCA	13408	UGGAAGUA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35693
9381	1649	UACUJCCA G CACUGCUC	13409	GAGCAGUG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35694
9386	1644	CCAGCACU G CUCCAAGG	13410	CCUUGGAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35695
9398	1632	CAAGGAG G UUGAGGUC	13411	GACCUCAA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35696
9404	1626	AGGUAG G UCCAUGAA	13412	UUCAUGGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35697
9435	1595	CCAAGAAC G UCUIUGUU	13413	AACAAGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35698
9441	1589	ACGUCUUU G UUCAACA	13414	UGUUGGAA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35699
9450	1580	UUCCAACA G UCAUCACG	13415	CGUGAUGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35700
9458	1572	GUCAUCAC G UAGUAUGC	13416	GCAUACUA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35701
9461	1569	AUCACGUA G UAUGCAUU	13417	AAUGCAUA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35702
9465	1565	CGUAGUAU G CAUUGGUG	13418	CACCAUUG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35703
9471	1559	AGUCAUUG G UGUCAAUC	13419	GAUUGACA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35704
9473	1557	GCAUUGU G UCAAUCCC	13420	GGGAUUGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35705
9487	1543	CCCUGACC G UGGUUCAC	13421	GUGAACCA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35706
9490	1540	UGACGUG G UUCACAGU	13422	ACUGUGAA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35707
9497	1533	GGUUCACA G UCCACUGU	13423	ACAGUGGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35708
9504	1526	AGUCCACU G UCACUCU	13424	AGAGGUGA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35709
9526	1504	UUCUCCAA G CUUUAUG	13425	CACUAAAG GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35710
9532	1498	AAGCUJUA G UGUGUAUG	13426	CAUACACA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35711
9534	1496	GCUUUAGU G UGUUAUGA	13427	UUCAUACA GGAGGAAAACUCCCUCAAGGACAUUCUCCGGG	35712

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9536	1494	UUUAGUGU G UAUAGAGG	13428	CCUUAUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	ACACUAAA	35713
9544	1486	GUUAGAG G CGCCGAG	13429	CUGCGCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CUUCAUAC	35714
9546	1484	AUAGAGC G CGCAGGA	13430	UCCUGCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GCCUUCAU	35715
9549	1481	AAGGCGC G CAGGAGUG	13431	CACUCCUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GCGCCUUG	35716
9555	1475	CGCAGGA G UGAUGUG	13432	CAGCAUCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UCCUGCGG	35717
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGAUUCAG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AUCACUCC	35718
9573	1457	AUCUCCU G CCUGAGUG	13434	CACUCAGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AGGAGAU	35719
9579	1451	CUGCCUGA G UGGUCCA	13435	UGGAGCCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UCAGGCAG	35720
9582	1448	CCUGAGUG G CUCCACC	13436	GGUUGGAG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CACUCAGG	35721
9592	1438	UCCAACU G UUGGAGU	13437	ACUCCACA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AGGUUGGA	35722
9594	1436	CAACUCU G UGGAGUG	13438	CUACUCCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	ACAGGUUG	35723
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UCCACACA	35724
9602	1428	GUGGAGUA G UUUCCGUG	13440	CACGGAAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UACUCCAC	35725
9608	1422	UAGUUUCC G UGCGACUC	13441	GAGUCGCA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GGAAACUA	35726
9610	1420	GUUUCGU G CGACUCCA	13442	UGGAGUCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	ACGGAAAC	35727
9621	1409	ACUCCACA G UAGUUGUG	13443	ACCAACUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UGUGGAGU	35728
9624	1406	CCACAGUA G UUGGUCCA	13444	UGGACCAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UACUGUGG	35729
9628	1402	AGUAGUUG G UCCAUGGA	13445	UCCAUGGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CAACUACU	35730
9645	1385	CAAAAUUG G CCACUUG	13446	CGAAGUGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CAUUUUUG	35731
9653	1377	GCCACUUC G UACUUGAU	13447	AUCAAGUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GAAGUGGC	35732
9678	1352	UCAAGAG G UUCUUCU	13448	AGGAAGAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CAUCUUGA	35733
9690	1340	UUCUUAU G CCUUGGUA	13449	UACCAAGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AAUAGGAA	35734
9696	1334	UUGCCUUG G UAGGCGAG	13450	CUGUCUA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CAAGGCAA	35735
9701	1329	UUGGUAGA G CAGGCAAA	13451	UUUGCCUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UCUACCAA	35736
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAAUUUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CUGUCUUA	35737
9714	1316	CAAAUUUG G CGCAUGUG	13453	CACAUGCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	CAAAUUUG	35738
9716	1314	AAUUUGGC G CAUGUGUC	13454	GACACAUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GCCAAAUU	35739
9720	1310	UGGCGCAU G UGUCAUG	13455	CAUUGACA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AUGCGCCA	35740
9722	1308	GCGCAUGU G UCAAUUGU	13456	AGCAUUGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	ACAUGCGC	35741
9728	1302	GUGUCAAU G CUUCCUUU	13457	AAAGGAAG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AUUGACAC	35742
9737	1293	CUUCCUUU G CCAAUAAA	13458	UUAAUUUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AAAGGAAG	35743
9749	1281	AAUAAUCC G CAGCCGUU	13459	AACGGCUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GGAUUAUU	35744
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACCG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UGCGGAUU	35745
9755	1275	CCGCAACC G UUGCCCCA	13461	UGGGGCAA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	GGCUGCGG	35746
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCUGGGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AACGGCUG	35747
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UGGGGCAA	35748
9770	1260	CAGCCCUU G UCCACCAC	13464	GUGGUGGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AGGGGCUG	35749
9784	1246	CACUCUUU G UCUGCACA	13465	UGUGCAGA	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AAGGAGUG	35750
9788	1242	CCUUGUCU G CACACAAA	13466	UUUGUGUG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	AGACAAGG	35751
9798	1232	ACACAAA G CUGGGUCA	13467	UGACCCAG	GGAGGAAACUCCCUUAAGGACAUCGUCCGGG	UUUUUGUGU	35752

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9803	1227	AAAGCUGG G UCAGCACG	13468	CGUGCUGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35753
9807	1223	CUGGGUCA G CAGGUUG	13469	CAAAACGUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35754
9811	1219	GUCAGCAC G UUGUCAU	13470	AUGACAAA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35755
9815	1215	GCAGGUU G UCAUUGG	13471	CACAAUGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35756
9821	1209	UUGUCAU G UGAGCUUC	13472	GAAACUCA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35757
9825	1205	CAUUGUG G CUUCUCC	13473	GGAGAAAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35758
9837	1193	CUCCGUG G UCGGGAC	13474	GUGCCCGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35759
9842	1188	AUGGUCG G CAGCGAC	13475	GCUGCGUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35760
9846	1184	UGGGGAC G CAGCUUG	13476	CAAAACUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35761
9849	1181	GGCAGCA G CUUUGUG	13477	CACAAAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35762
9855	1175	CAGCUUG G UGGAGAG	13478	UCUCUCA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35763
9866	1164	GAGAGUC G CUGACGU	13479	ACCGUCAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35764
9873	1157	CGUGAGG G UAGCCAA	13480	UUUGGCUA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35765
9876	1154	UGACGGU G CCAAUAG	13481	CUAUUUGG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35766
9884	1146	GCCAAUA G CAAUAACU	13482	AGUUAUUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35767
9893	1137	CAUAACU G CGGACCU	13483	GAGUUCG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35768
9903	1127	GGACCUU G CCAGGUUG	13484	CAACCUUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35769
9908	1122	UCUGCCG G UUGACCG	13485	GCUGUCA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35770
9915	1115	GGUUGAC G CCUCCAUA	13486	UAUGGAGG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35771
9945	1085	CAUCGAG G UAGGCUUG	13487	CAAGCCUA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35772
9949	1081	GAUGGUAG G CUUGUCU	13488	AGGACAAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35773
9953	1077	GUAGGCUU G UCCUAGA	13489	UCTAAGGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35774
9969	1061	ACAUGUA G UCACGCA	13490	CUGCGUGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35775
9974	1056	AUAGUCAC G CAGCUGC	13491	GACAGCUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35776
9977	1053	GUCACGCA G CUGUGCC	13492	GGCGACAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35777
9980	1050	ACGCAGU G UCGCCUUC	13493	GAAGCCGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35778
9983	1047	CAGCUGC G CCUUCGAG	13494	CUCGAAAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35779
10008	1022	GCACCAU G UUGCUCA	13495	UGGAGCAA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35780
10011	1019	CCCAUGU G CUCCAGAC	13496	GUCUGGAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35781
10034	996	UCCAAGAA G UCUCUGU	13497	AACAGAGA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35782
10040	990	AAGUCUU G UUGUCUA	13498	AUGAGCAA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35783
10043	987	UCUCUGU G CUCAUUC	13499	GGAAUGAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35784
10055	975	AUCCAGG G CAGUUGAA	13500	UUCACACU GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35785
10058	972	CAAGGCA G UUGAGCU	13501	AGCUUCA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35786
10064	966	CAGUAGA G CUGUAGC	13502	GCUUACAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35787
10067	963	UUGAGCU G UAAGCUG	13503	CCAGCUUA GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35788
10071	959	AGCUGUA G CUGGGGC	13504	GGCCCCAG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35789
10077	953	AAGCUGG G CCACCAA	13505	UUUGGUGG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35790
10087	943	CACCAAA G CAAUAGCA	13506	UGCUAUUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35791
10093	937	AAGCAUA G CACGACAA	13507	UUUGCUG GGAGGAAACUCCUUAAGGACAUUCGUCGCGG	35792

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10114	916	AACUCUCU G CAUGGUGU	13508	ACACCAUG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGAGAGUU	35793
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CAUGCAGA	35794
10121	909	UGCAUGGU G UUGCUCCC	13510	GGAGCAA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACCAUGCA	35795
10124	906	AUGGUGU G CUCCCAAG	13511	CUUGGGAG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AACACCAU	35796
10132	898	GCUCCAA G CAUCCAAC	13512	GUUGGAUG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG UUGGGAGC	35797
10149	881	CAUAGG G CUGCCACC	13513	GUUGGCAG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CGUCAUUG	35798
10152	878	UGAGGCU G CCACCAAG	13514	CCUGGUGG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGCCGUCA	35799
10161	869	CCACCAG G CAUAUCCA	13515	UGGAUUG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CCUGGUGG	35800
10172	858	UAUCCAG G UUCUCAAA	13516	UUGAGGAA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CUGGAUA	35801
10194	836	AUGAUUCU G UUUUUAAC	13517	GGUAAAAA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGAAUCAU	35802
10212	818	AAUACCUU G UGGCCUUG	13518	CAAGGCCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AAGGUUAU	35803
10215	815	ACCUUGUG G CCUUGGUG	13519	CACCAAGG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CACAAGGU	35804
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CAAGGCCA	35805
10223	807	GCCUUGGU G CUGUCCAU	13521	AUGGACAG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACCAAGGC	35806
10226	804	UUGGUGCU G UCCAUCCA	13522	UGGAUGGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGCACCAA	35807
10236	794	CAUCCAA G CCCCUCUC	13523	GAAGGGGG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG UUGGAUUG	35808
10247	783	CCCUUCU G UUGCUUAG	13524	CUAGCGAA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AAGAAGGG	35809
10251	779	UCUUGUUC G CUAGAGUG	13525	CACUCUAG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG GAACAAGA	35810
10257	773	UCGCUAGA G UGCUUCU	13526	AGAAAGCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG UCUAGCGA	35811
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACUCUAGC	35812
10268	762	CUUUCUCC G UGUGUCUG	13528	CAGACACA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG GGAGAAAG	35813
10270	760	UUCUCUGU G UGUCUGCA	13529	UGCAGACA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACGGAGAA	35814
10272	758	CUCCGUGU G UCUGCACU	13530	AGUGCAGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACACGGAG	35815
10276	754	GUGUGUCU G CACUGUCA	13531	UGACAGUG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGACACAC	35816
10281	749	UCUGCACU G UCAGUGAC	13532	GUCACUGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGUUCAGA	35817
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGUCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG UGACAGUG	35818
10298	732	CUCCGACU G CGUCUUGA	13534	UCAAGACG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGUCGGAG	35819
10300	730	CCGACUCC G UCUUGAGU	13535	ACUCAAGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG GCAGUCGG	35820
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG UCAAGACG	35821
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CACUCAAG	35822
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG GCCACUCA	35823
10314	716	AGUGGCGU G UCUUGGUG	13539	CACCAAGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACGCCACU	35824
10320	710	GUGUCUUG G UGCAUCUU	13540	AAGAUGCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG CAAGACAC	35825
10322	708	GUCUUGGU G CAUCUUC	13541	GGAAGUUG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACCAAGAC	35826
10340	690	UACUUGAC G UAGACUCC	13542	GCAUCUA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG GUCAAGUA	35827
10347	683	CGUAGACU G CUGACUUU	13543	AAAGUCAG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AGUCUACG	35828
10356	674	CUGACUUU G UGCACCAA	13544	UUGGUGCA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AAAGUCAG	35829
10358	672	GACUUUGU G CACCAACA	13545	UGUUGGUG GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG ACAAGUC	35830
10367	663	CACCAACA G UCGAUGUC	13546	GACAUCGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG UGUUGGUG	35831
10373	657	CAGUCGAG G UCUUCUGG	13547	CCAGAAGA GGAGGAAAUCUCCCUUAAGGACAUCGUCCGGG AUCCGACUG	35832

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10392	638	CAUUAACA G CCGACAGC	13548	GCUGUCGG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UGUUAUUG	35833
10399	631	AGCCGACA G CACUGGGC	13549	GCCAGUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UGUCCGGCU	35834
10406	624	AGCACUGG G CAUUCUAU	13550	UAUGAAUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CCAGUGCU	35835
10416	614	AUUCUAAA G UGAUAGUA	13551	UACUAUCA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UUAUGAAU	35836
10422	608	AAGUGAUA G UAUCAUUG	13552	CGAUGAUA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UAUACAUU	35837
10430	600	GUUACAU G CACAUGUA	13553	UACGAUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GAUGAUAC	35838
10436	594	UGCCACAU G UAUCCAC	13554	UGGGGAUA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AUGUGCGA	35839
10452	578	CAUCCAUU G CUCUGACA	13555	UGUCAGAG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AAUGGAUG	35840
10463	567	CUGACAAU G CAUAGGUU	13556	AACCUAUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AUUGUCAG	35841
10469	561	AUGCAUAG G UUCUUUCC	13557	GGAAAGAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CUUAU AU	35842
10479	551	UCUUUCCA G CAGCUGUU	13558	AACAGCUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UGGAAU A	35843
10482	548	UUCACAGA G CUGUUGGA	13559	UCCAACAG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UGCUUGAA	35844
10485	545	CAGCAGCU G UUGGAAUC	13560	GAUUCCAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AGCUGCUG	35845
10494	536	UUGGAUUC G UGAUGACA	13561	UGUCAUCA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GAUUCCAA	35846
10506	524	UGACAUUC G UGACGUCA	13562	UGACGUCA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AGAUGUCA	35847
10511	519	UCUGUGAC G UCAGUAGC	13563	GCUAUGUA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GUACACAGA	35848
10515	515	UGACGUCA G UAGCAUUA	13564	AAAUUGUA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UGACGUCA	35849
10518	512	CGUCAGUA G CAUUUAAC	13565	GGUAAAUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UACUGACG	35850
10527	503	CAUUUACC G UCAUCAUC	13566	GAUGAUGA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GGUAAAUG	35851
10550	480	CCUUGAA G UUAGAGAG	13567	CUCUCUAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UUCCAAGG	35852
10560	470	UAGAGAGG G UACUGUCU	13568	AGCAUUA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CCUCUCUA	35853
10566	464	GGUUAACU G CUCCUACG	13569	CUUAGGAG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AGUACACC	35854
10574	456	GCUCUAC G CUGGCGAU	13570	AUCGCCAG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GUAGGAGC	35855
10578	452	CUACGUC G CGAUCAGG	13571	CCUGAUC GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CAGCGUAG	35856
10586	444	CGCAUCAG G CCAAUCAU	13572	AUGAUUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CUGAUCGC	35857
10599	431	UCAUGACU G CAAUUCG	13573	CGGAUUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AGUCAUGA	35858
10608	422	CAAUUCG G UCUUUCU	13574	AGGAAAGA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CGGAUUG	35859
10630	400	UUUCUUU G UUUUGAGC	13575	GCUCAAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AAAAGAAA	35860
10637	393	UGUUUGA G CUCCGCCG	13576	CGCGGAG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UCAAAACA	35861
10642	388	UGAGCUCC G CCGAUUGA	13577	UCAUUCGG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GGAGCUCA	35862
10653	377	GAUUGAUA G CACUGGUC	13578	GACCAGUG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UAUCAAUC	35863
10659	371	UAGCACUG G UCAAGGUC	13579	GACCUUGA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CAGUGCUA	35864
10665	365	UGGCUAG G UCCCUAGU	13580	ACTUAGGA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CUUGACCA	35865
10672	358	GGUCCUUA G UUCUUCU	13581	AGAAAGAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG UUGGACC	35866
10694	336	CUAGAGUA G UGUUUAU	13582	AUGAAACA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG CUUCUGAG	35867
10696	334	CAGAAGU G UUUCAUCG	13583	CGAUGAAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG ACCUUCUG	35868
10704	326	GUUUAUC G CUGUUUGU	13584	ACAAACAG GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG GAUGAAAC	35869
10707	323	UCAUGCU G UUUUUUG	13585	CAAAACA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AGCGAUGA	35870
10711	319	CGCUGUU G UUUUUAU	13586	UGAACAAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AAACAGCG	35871
10715	315	GUUUGUU G UUCACACC	13587	GGUGUGAA GGAGGAAAACUCCUUAAGGACAUUCGUCCGGG AAACAAAC	35872

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10738	292	UGAUCGA G CACUGUC	13588	GAGCAGUG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UGGAUCGA	35873
10743	287	CGAGCAU G CUCGGUC	13589	GACCCGAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AGUGCUGG	35874
10749	281	CUGCUGG G UCGGAGCA	13590	UGCUCGGA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CCGAGCAG	35875
10755	275	GGGUCGA G CAAUUGU	13591	AGCAAUUG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UCCGACCC	35876
10761	269	GAGCAU G CUGUGAAC	13592	GUUCACAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AAUUGCUC	35877
10764	266	CAAUUGU G UGAACCTG	13593	CAGGUUCA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AGCAAUUG	35878
10779	251	UGAAGAAC G CCAAGAGA	13594	UCUGUUGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GUUCUUA	35879
10788	242	CCAAGAGA G CCAACACA	13595	UGUGUUGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UCUCUUGG	35880
10801	229	CACAAUC G UAUUGGC	13596	GGCCAAUA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GAUUGUG	35881
10807	223	UGUAUUG G CCCCUGC	13597	GCAAGGGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CAAUACGA	35882
10814	216	GGCCCCU G CCGUCGAU	13598	AUCGACGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AAGGGGCC	35883
10817	213	CCCUUGCC G UGAUCAG	13599	CUGAUCGA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GGCAAGGG	35884
10826	204	UGAUCAG G CUCAACAU	13600	AUGUUGAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CUGAUCGA	35885
10836	194	UCAACUA G CCCCUCU	13601	GAAGAGGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UAUGUUGA	35886
10846	184	CCUCUCA G UCCAAUCA	13602	UGAUUGGA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UGAAGAGG	35887
10865	165	GACAAAC G CCGGGCAU	13603	AUGCCCCG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GUGUUGUC	35888
10870	160	CACGCGGG G CAUUCGCG	13604	CGGGAUUG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CCCGCGUG	35889
10877	153	GGCAUUC G CGUUUAG	13605	CUAAAACG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GGAUUGCC	35890
10879	151	CAUUCGCG G UUUUAGCA	13606	UGCUAAAA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GCGGAUUG	35891
10885	145	GGUUUUA G CAUAUUGA	13607	UCAUAUUG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UAAAACGC	35892
10896	134	UAUUGACA G CCGGGCUC	13608	GAGCCGGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UGUCAAUU	35893
10901	129	ACAGCCCG G CUCUUGCC	13609	GGCAAGAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CGGGCUGU	35894
10907	123	CGGCUCU G CCGGGGCC	13610	GGGCCCGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AAGAGCCG	35895
10912	118	CUGCCGG G CCCUCCUG	13611	CAGGAGGG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CGGGCAAG	35896
10921	109	CCCUCUG G UUUUUUAG	13612	CUAAGAAA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CAGGAGGG	35897
10944	86	AGAUCUUC G UGCUAAGA	13613	UCUUAGCA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GAAAGAUU	35898
10946	84	AUCUUCGU G CUAAGAAA	13614	UUUCUUAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	ACGAAGAU	35899
10957	73	AAGAAACA G CUCGCACU	13615	AGUGCGAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UGUUUCUU	35900
10961	69	AACAGCUC G CACUGUGU	13616	ACACAGUG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GAGCUGUU	35901
10966	64	CUCGCAGU G UGUUAAUU	13617	AAUUAACA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AGUGCGAG	35902
10968	62	CGCACUGU G UUAUUUGU	13618	ACAAUUA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	ACAGUGCG	35903
10975	55	UGUUAUU G UUGUAAU	13619	AUUAACAA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AAUUAACA	35904
10978	52	UAUUUUU G UUAUCCU	13620	AGGAUUA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AACAADUA	35905
11002	28	CUAUAUA G UUUGUCAG	13621	CUGACAAA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UUAGUAGU	35906
11006	24	CUAAGUUU G UCAGCUCA	13622	UGAGCUUA	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AAACUUAU	35907
11010	20	GUUUGUCA G CUCACACA	13623	UGUGUGAG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	UGACAAAC	35908
11020	10	UCACACAG G CGAACUAC	13624	GUAGUUCG	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	CUGUGUGA	35909
37	10993	CCAUUGUC G GCGCACUG	14175	CAGUGCGC	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	GACAAUUG	35910
54	10976	UGCCGUGU G GCUGGUUG	14176	CAACCAGC	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	ACACGGCA	35911
58	10972	GUUGGCU G GUUGUGCA	14177	UGCACAAC	GGAGGAAAACUCCUUAAGGACAUCGUCGCGG	AGCCACAC	35912

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67	10963	GUUGUGCA G AGCAGAAG	14178	CUUCUGCU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UGCACAAC	35913
72	10958	GCAGAGCA G AAGAUCUC	14179	GAGAUCUU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UGCUCUGC	35914
75	10955	GAGCAGAA G AUCUCCUA	14180	UAGAGAGU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UUCUGCUC	35915
94	10936	UAUCCCA G GUGUCAAU	14181	AUUGACAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UGGGAUAG	35916
118	10912	UUUGUUGU G GUGUUUUG	14182	CAAAACAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG ACAACAAA	35917
128	10902	UGUUUUGU G GCACGGGG	14183	CCCCGUGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG ACAAAAACA	35918
133	10897	UGUGGCAC G GGGUCUCC	14184	GGAGACCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG GUGCCACA	35919
134	10896	GUGGCACG G GGUCUCCA	14185	UGGAGACC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CGUGCCAC	35920
135	10895	UGGCACGG G GUCUCCAC	14186	GUGGAGAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCGUGCCA	35921
164	10866	CUUCCCUU G ACCUACAG	14187	CUUGAGGU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AGGGGAAG	35922
182	10848	UUCAGUCA G GCUGGGCC	14188	GGCCACGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UGACUGAA	35923
186	10844	GUCAGGCU G GGCCGUGC	14189	GCACGGCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AGCCUGAC	35924
187	10843	UCAGGCUU G GCCGUGCA	14190	UGCACGGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CAGCCUGA	35925
207	10823	UAAACCGC G GGGUCUCC	14191	GGAGACCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG GCGUUUUA	35926
208	10822	AAACCGCG G GGUUCUCU	14192	AGGAGACC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCGGUUUU	35927
209	10821	AACCGCGG G GUCUCUCU	14193	GAGGAGAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCGCGGUU	35928
240	10790	UUCGCCCU G GUUAAACAC	14194	GUGUUAAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AGGCGGAA	35929
256	10774	CAUUAACC G GGGCUAGG	14195	CCUAGCCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG GGUUAUUG	35930
257	10773	CAUUAACG G GGUUAGGG	14196	CCUAGACC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CGGUAUUG	35931
258	10772	AUUAACCG G GCUAGGCG	14197	GCCTUAGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCGGUAAU	35932
263	10767	CGGGGCUA G GGC CGGCU	14198	ACGCGGCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UAGCCCTG	35933
264	10766	GGGGCUAG G GCCGCGUG	14199	CACGCGGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CUAGCCCC	35934
272	10758	GGCGCGUG G GGGCGUUG	14200	CAACGCCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG ACGCGGCC	35935
273	10757	GCCGCGUG G GGGGUGG	14201	CCAACGCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CACGCGGC	35936
274	10756	CCGCGUGG G GCGUUGGU	14202	ACCAACGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCACGCGG	35937
280	10750	GGGGCGUU G GUUUGCCU	14203	AGGCAAAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AACGCCCC	35938
308	10722	GUCCUCCU G GGGCACA	14204	UAGUGCCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AGGAGGAC	35939
309	10721	UCCUCCUG G GGCACUAU	14205	AUAGUGCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CAGGAGGA	35940
310	10720	CCUCCUGG G GCACUAUC	14206	GAUAGUGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCAGGAGG	35941
322	10708	CUAUCGCA G ACUGCACU	14207	AGUGCAGU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UGC GAUAG	35942
338	10692	UCUCCGCA G AGUAGCAC	14208	GUGCUACU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG UGC GGAGA	35943
357	10673	CGUAGCGU G GUCUGACA	14209	UGUCAGAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG ACGCUACG	35944
362	10668	CGUGGUCU G ACAUUGGG	14210	CCCAAUUG GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AGACCAAG	35945
368	10662	CUGACAUU G GGCUUUGA	14211	UCAAAAGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AAUGUCAG	35946
369	10661	UGACAUUG G GCUUUGAA	14212	UUCAAAGC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CAAUGUCA	35947
375	10655	UGGGCUUU G AAGUUAACA	14213	UGUAACUU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG AAAGCCCA	35948
390	10640	CAACAUGU G GGUUCCUC	14214	GAGGACCC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG ACAUGUUG	35949
391	10639	AACAUGUG G GGUUCCUC	14215	GGAGGACC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CACAUGUU	35950
392	10638	ACAUGUGG G GUCCUCCU	14216	AGGAGGAC GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG CCACAUGU	35951
404	10626	CUCCUCCG G AGACGGUU	14217	AACCGUCU GGAGGAAACUCCCUCAAGGAGACUUGUCCGGG GGAAGGAG	35952

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406	10624	CCUCCGA G	ACGGUUCU	14218	AGAACCUG	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	UCGGAAGG	35953
409	10621	UCCGAGC G	GUUCUGAG	14219	CUCAGAAC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GUUCUGGA	35954
415	10615	ACGGUUCU G	AGGGCUUA	14220	UAAGCCCU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGAACCUG	35955
417	10613	GGUUCUGA G	GGCUUACA	14221	UGUAAGCC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	UCAGAACC	35956
418	10612	GUUCUGAG G	GUUAACAU	14222	AUGUAAGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CUCAGAAC	35957
427	10603	GUUAACAU G	GAUCACUU	14223	AAGUGAUC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AUGUAAGC	35958
428	10602	CUUACUAG G	AUCACUUC	14224	GAAGUGAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CAUGUAAG	35959
439	10591	CACUCCG G	GUUUUGUU	14225	AACAAAGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GCGAAGUG	35960
462	10568	GUCCUCCU G	GGUUGAG	14226	CUCAACCC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGGAGGAC	35961
463	10567	UCCUCCUG G	GGUUGAG	14227	ACUCAACC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CAGGAGGA	35962
464	10566	CCUCCUGG G	GUUGAGUC	14228	GACUCAAC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CCAGGAGG	35963
468	10562	CUGGGGUU G	AGUCGCAG	14229	CUGCGACU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AACCCACG	35964
476	10554	GAGUCGCA G	GCAGCACC	14230	GGUGCUGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	UGCAGACUC	35965
500	10530	CAACUCC G	GUGGCGGG	14231	CCGCGCAC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GGAAGUUG	35966
503	10527	CUUCCGGU G	GCGGGAAC	14232	GUUCCCGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	ACCGGAAG	35967
506	10524	CGGUGGGC G	GGAACUUC	14233	GAAGUUC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GCACACCG	35968
507	10523	CGGUGGG G	GAACUCC	14234	GGAAUUC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CGCCACCG	35969
508	10522	GGUGGGCG G	AACUCC	14235	GGGAAGUU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CCGCCACC	35970
517	10513	AACUCC G	GCCUGACU	14236	AGUCAGGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GGGAAGUU	35971
522	10508	CCCGGCUU G	ACUUUCUC	14237	GAGAAAGU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGGCCGGG	35972
622	10408	UUAACAUU G	AUUAUAUA	14238	UAUUUAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AUUGUUA	35973
681	10349	UCUUUAGU G	AACUCAUG	14239	CAUGAGUU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	ACUAAAAG	35974
713	10317	UCAUCUC G	AUGAUUGC	14240	GCAAUCAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GGAGAUGA	35975
716	10314	UCUCCGAU G	AUUGCUCU	14241	AGAGCAAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AUCGGAGA	35976
725	10305	AUUGCUCU G	ACUUGGUU	14242	AACCAAGU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGAGCAAU	35977
730	10300	UCUGACUU G	GUUGAUAG	14243	CUAUCAAC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AAGUCAGA	35978
734	10296	ACUUGGUU G	AUAGCCAC	14244	GUUGCUAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AACCAAGU	35979
745	10285	AGCCACCU G	GAUGUUUU	14245	AAACAUC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGGUGGCU	35980
746	10284	GCCACCU G	AUGUUUUC	14246	GAAACAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CAGGUGGC	35981
764	10266	GCCACGU G	GCUCGGGC	14247	GCCGAGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	ACGUGGCG	35982
769	10261	CGUGGCU G	GGCUCUUG	14248	CAAGAGCC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	GAGCCACG	35983
770	10260	GUGGCU G	GCUCUUGU	14249	ACAAAGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CGAGCCAC	35984
787	10243	GCAAUCA G	GCUGCCAC	14250	GUGGAGC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	UGAUUGGC	35985
800	10230	CCACACCA G	AUGUCCUC	14251	GAGGACAU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	UGGUGUGG	35986
819	10211	GUUUUCCU G	AAUAUUGG	14252	CCCAUAUU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGGAAAC	35987
825	10205	CUGAAU G	GGACGUCA	14253	UGACGUCC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AUAUUCAG	35988
826	10204	UGAAUUG G	GAGGUCAC	14254	GUGAGCUC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CAUAUUA	35989
827	10203	GAUAUGG G	ACGUCACU	14255	AGUGAGUU	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CCAUAUUC	35990
849	10181	UUCUCCACU G	GGUUUUG	14256	CAAAACC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	AGUGGAGA	35991
850	10180	CUCCACUG G	GGUUUUGU	14257	ACAAAACC	GGAGGAAACUCCUUCUUAAGGACAUCGUCCGGG	CAGUGGAG	35992

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851	10179	UCCACUGG G GUUUGUC	14258	GACAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CCAGUGGA	35993
892	10138	CCAACAC G GUUCGAGA	14259	UCUGGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GUGUUUGG	35994
899	10131	CGGUCCA G ACCUCCAA	14260	UUGGAGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGAACCG	35995
943	10087	CCUGCAU G GAUGACC	14261	UGGUCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUGCAGGA	35996
944	10086	UCUGCAU G AUGGACC	14262	UGGUCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAUGCAGG	35997
947	10083	GCAUGAU G GACCAGU	14263	ACUGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUCCAUGC	35998
948	10082	CAUGAUG G ACCACGUG	14264	CACGUGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAUCCAUG	35999
956	10074	GACCAGU G GUUCUUC	14265	GGAAGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACUGGUC	36000
965	10065	GUUCUCC G GUAGGGAC	14266	GUCCUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GGAAGAAC	36001
969	10061	UUCGGUA G GGACCCAA	14267	UUGGUCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UACCGGAA	36002
970	10060	UCCGUAG G GACCCAAU	14268	AUUGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUACCGGA	36003
971	10059	CCGUAGG G ACCCAAU	14269	AUUGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUACCGG	36004
984	10046	AUUCACA G GGACAGCG	14270	CGCUGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGUGAAU	36005
985	10045	AUUCACG G GACAGCGG	14271	CCGUGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUGUGAAU	36006
986	10044	UUCACAG G ACAGCGGA	14272	UCCGUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CCUGUGAA	36007
992	10038	GGACAGC G GAGCAAU	14273	AUUGCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCUGUCC	36008
993	10037	GGACAGC G AGCAAUG	14274	CAUUGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CGCUGUC	36009
1001	10029	GAGCAAU G GCGUUGC	14275	GCCAACG GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUUUGCUC	36010
1007	10023	AUGGGU G GCCAUGAG	14276	CUCAUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AACGCCAU	36011
1013	10017	UUGGCAU G AGCCGCG	14277	CUGCGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUGGCCAA	36012
1021	10009	GAGCGCA G GUCUCUC	14278	GAAGAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGCUGCUC	36013
1033	9997	UCUUCUG G GAAGUACA	14279	UGUACUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACAGAAGA	36014
1034	9996	CUUCUGU G AAGUACAG	14280	CUGUACU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CACAGAAG	36015
1042	9988	GAAGUACA G AAGCAGCC	14281	GGCUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGUACUUC	36016
1057	9973	CCACUUC G GGCAUAG	14282	CUUAUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGAUGUGG	36017
1058	9972	CACUUCG G GCAUAGA	14283	UCUUAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAGAUGUG	36018
1065	9965	GGGCAUA G ACUAGCC	14284	GGCUAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UUAUGCCC	36019
1075	9955	CUUAGCA G ACAAGCAG	14285	CUGCUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGCUAAG	36020
1090	9940	AGUGGCG G GACGUUC	14286	GGAACGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCGACACU	36021
1091	9939	GUGUCGG G ACUUUCCA	14287	UGGAACGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CGCGACAC	36022
1103	9927	UUCCAUC G GCCCUGG	14288	CCAGGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GGAUGGAA	36023
1110	9920	CGGCCCU G GAGUAUG	14289	CAUAUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGGGCCG	36024
1111	9919	GGCCCUG G AGUAUGC	14290	GCAUAUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAGGGGCC	36025
1113	9917	CCCUUGA G AUAUGCA	14291	UCGCAU U GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UCCAGGGG	36026
1120	9910	AGAUUGC G AGCUCUG	14292	GCAGAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCAUAUCU	36027
1150	9880	CUGUCCU G GCAUGAA	14293	UUCCAUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GAGGACAG	36028
1155	9875	CUCGGCAU G GAACCAAC	14294	GGUGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUGCCGAG	36029
1156	9874	UCGGCAUG G AACCAACA	14295	UGGUGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAUGCCGA	36030
1184	9846	UCUUCAU G AUCAAUUC	14296	GAAUUGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUGAAAGA	36031
1196	9834	AAUUCAGU G AAUGGUU	14297	AACCAU U GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACUGAAU	36032

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1201	9829	AGUGAAU G GUUUGAGC	14298	GCUCAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUUUCACU	36033
1206	9824	AUUGUUU G AGCAAAU	14299	AUUUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAACCAU	36034
1215	9815	AGCAAAU G GAACUUGC	14300	GCAGGUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUUUGCU	36035
1216	9814	GCAGAAU G AACUUGCU	14301	AGCAGGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAUUUUGC	36036
1245	9785	AUCCAGU G ACGUUUUC	14302	GAACCCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AACUGGAU	36037
1248	9782	CAGUUGC G GUUUCAC	14303	GUGGAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GUCAACUG	36038
1261	9769	CCACUUU G AUGUCUU	14304	AAGACAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAGAGUGG	36039
1262	9768	CACUUUG G AUGUUUU	14305	AAAGACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAAGAGUG	36040
1273	9757	GUUUUUG G AACUUUG	14306	CAAAGGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCAAAGAC	36041
1281	9749	GAACUUU G ACAUAGCA	14307	UGCUAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAAGGUUC	36042
1292	9738	AUAGCAU G AGGAAGUG	14308	CACUUCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAUGCUAU	36043
1294	9736	AGCAUUG G GAAGUGGA	14309	UCCACUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UCAAUGCU	36044
1295	9735	GCAUUGG G AAGUGGAG	14310	CUCCACUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUCAAUGC	36045
1300	9730	GAGGAAGU G GAGCGAGG	14311	CTUCGCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACUUCUCU	36046
1301	9729	AGGAAGU G AGCGAGGU	14312	ACUUCGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCUUCCUU	36047
1305	9725	AGUGGAGC G AGGUGGCA	14313	UGCCACCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCUCUCCU	36048
1307	9723	UGGAGGCA G GUGGCAAA	14314	UUUCCUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UCGCUCCA	36049
1310	9720	AGCGAGU G GCNAGCG	14315	CGCUUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACCUCGCU	36050
1318	9712	GGCAAGU G AUCGUCCA	14316	UGGACGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCUUUGCC	36051
1327	9703	AUCGUCCA G GGGCUUUA	14317	UAAAGCCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGACGGAU	36052
1328	9702	UCGUCCAG G GGCUUUAC	14318	GUAAAGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUGGACGA	36053
1329	9701	CGUCCAGG G GCUUUAAC	14319	GGUAAAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CTUGGACG	36054
1355	9675	UCUCCACU G ACAGGCAU	14320	AUGGCUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGUGGAGA	36055
1366	9664	AGCCAUGC G GCUGAGUC	14321	GACUCAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCAUGGCU	36056
1370	9660	AUGCGGCU G AGUCUUUC	14322	GAAGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGCCGCAU	36057
1400	9630	AACAGCCA G GUCCUGAC	14323	GUACAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGCUGUU	36058
1406	9624	CAGGUCCU G ACUUUGGG	14324	CCCAAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGGACCUU	36059
1412	9618	CUGACUUU G GGUCUUUU	14325	AAAGGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAAGUCAG	36060
1413	9617	UGACUUUG G GUCCUUUC	14326	GAAGGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAAAGUCA	36061
1430	9600	CCUUUUGU G AGUUUCUC	14327	GAGAAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACAAAAGG	36062
1449	9581	CAUCAUCU G GGCCRAUC	14328	GAUUGGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGAUGAUG	36063
1450	9580	AUCAUCUG G GCCAAUCA	14329	UGAUUGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAGAUGAU	36064
1489	9541	CACCAUCU G GACGGCCA	14330	UGGCCGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGCUGGUG	36065
1490	9540	ACCAGCUG G ACGGCCAG	14331	CUGGCCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAGCUGGU	36066
1493	9537	AGUGGAC G GCCAGGUU	14332	AAGCGGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GUCCAGCU	36067
1498	9532	GACGGCCA G GUUGGUGA	14333	UCACCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGCCGUC	36068
1502	9528	GCCAGGUU G GUGAAAGU	14334	ACUUUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AACCTGGC	36069
1505	9525	AGGUUGGU G AAAGUGUU	14335	AAACAUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACCAACCU	36070
1516	9514	AGUUUUA G GCGUAGG	14336	CCUACGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UAAACACU	36071
1517	9513	GUGUUAG G GCGUAGGU	14337	ACCUACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUAAACAC	36072

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1523	9507	AGGGCGUA G GUGACAAC	14338	GUUUCAC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UACGCCCU	36073
1526	9504	GGUAGGU G ACAACUUG	14339	CAAGUUGU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	ACCUACGC	36074
1549	9481	CCCCUCU G AUCUUCUC	14340	GAGAAGAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AGAGGGGG	36075
1559	9471	UCUUCUCU G GAGUAAC	14341	GUUAUCUC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AGAGAAGA	36076
1560	9470	CUUCUCUG G AGAUAACA	14342	UGUUAUCU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	CAGAGAAG	36077
1562	9468	UCUCUGGA G AUAAACUC	14343	GAGUUAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UCCAGAGA	36078
1574	9456	ACUCCAU G AGGUUCU	14344	AGAAACCGU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AUGGAUGU	36079
1577	9453	UCCAUGAC G GUUCUUC	14345	GGAGAAC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GUCAUGGA	36080
1596	9434	CAGCAGC G GCGCAUC	14346	GAGCGCC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GGCUGCUG	36081
1597	9433	AGCAGCG G GCGCAUC	14347	UGAUGCGC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	CGGCUGCU	36082
1621	9409	AACUUUG G ACGAUAAG	14348	CCUAUCGU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	ACAAAGUU	36083
1624	9406	UUUGUAC G AUAGGUUA	14349	UCACCUAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GUCACAAA	36084
1628	9402	UGACGAUA G GUGAGCUC	14350	GAGCUCAC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UAUCGUCA	36085
1631	9399	CGAUAGU G AGCUCAU	14351	AUUGAGCU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	ACCUAUCG	36086
1640	9390	AGCUCAU G AUGGCCCU	14352	AGGCCAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AUUGAGCU	36087
1643	9387	UCAUGAU G GCCUGGC	14353	GCCAGGCG GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AUCAUUGA	36088
1649	9381	AUGGCCU G GCAAGAG	14354	GCUCUUGC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AGGCCAU	36089
1654	9376	CCUGGCA G ACGCCGA	14355	AUCGGCGU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UUGCCAGG	36090
1660	9370	AAGACGC G AUGUUCOC	14356	GGGAACAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GGCGUCUU	36091
1718	9312	GCUCUCU G AUGCGGU	14357	ACCGCAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	ACGAGAGC	36092
1723	9307	CGUAUGC G GUGUCCC	14358	GGGACACC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GCAUCACG	36093
1724	9306	GUGAUGC G GUGUCCA	14359	UGGGACAC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	CGCAUCAC	36094
1754	9276	UCAGCAUA G AUCUUGC	14360	GGCAAGAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UAUGCUGA	36095
1767	9263	UGCCCCA G GCCGGUG	14361	CACCCGCG GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UGGGGGCA	36096
1771	9259	CCCAGGC G GGUGCCNA	14362	UUGGCACC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GGCCUGGG	36097
1772	9258	CCAGGCG G GUGCCAC	14363	GUUGGCAC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	CGGCCUGG	36098
1789	9241	UUCACGA G GAUGUAAC	14364	GUUACAUC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UGCGUGAA	36099
1790	9240	UCACGCAG G AUGUAACC	14365	GGUUAU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	CUUGCUGA	36100
1807	9223	CAGUUUU G GAGGCCA	14366	UGGGCCUC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AAAAACUG	36101
1808	9222	AGUUUUU G AGGCCCA	14367	UUGGGCCU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	CAAAAACU	36102
1810	9220	UUUUUGA G GCCCAAGC	14368	GCTUUGGC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UCCAAAAA	36103
1823	9207	AAGCCUC G ACACUCC	14369	GGAGGUGU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GAGGCUU	36104
1836	9194	CUCUCU G AGUUCUU	14370	AAAGAACU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AGGAGGAG	36105
1858	9172	AGCCAGU G GUUCUUA	14371	AUGAAGAC GGAGAAACUCCCUCAAGGACAUCGUCCGGG	ACUGGCUU	36106
1868	9162	UCUCCAU G AGAAACC	14372	GGUUUUCU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	AAUGAAGA	36107
1870	9160	UUCAUUA G AAAACCCA	14373	UGGGUUUU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UCAUGAA	36108
1879	9151	AAAACCA G AGCCUCA	14374	UCGAGGCU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UGGGUUUU	36109
1886	9144	AGAGCUC G AACUCCAG	14375	CUGGAGUU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GAGGCUU	36110
1894	9136	GAACUCA G AAAGCGAG	14376	CUCGCUUU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	UGGAGUUC	36111
1900	9130	CAGAAAC G AGCUCGGA	14377	UCGGAGCU GGAGAAACUCCCUCAAGGACAUCGUCCGGG	GCUUUCUG	36112

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1907	9123	CGAGCUC	G AGCCACAU	14378	AUGUGGCU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGAGCUCG	36113
1916	9114	AGCCACAU	G AACCAAU	14379	AUUUGGUU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGUGGCU	36114
1925	9105	AACCAAU	G GCUCUGCU	14380	AGCAGAGC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUUUGGUU	36115
1940	9090	CUUCCUU	G GCUUUCC	14381	GGAAGGC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAGGGAAG	36116
1949	9081	GCUUUCC	G AACUCUC	14382	GGAGAGUU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGAAAGGC	36117
1958	9072	ACUCUC	G GGUUUUU	14383	AAAAAAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGAGAGUU	36118
1959	9071	ACUCUCG	G GUUUUUU	14384	AAAAAAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGAGAGUU	36119
2002	9028	GCAAGUU	G ACAUUC	14385	GGAAUUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	ACACUUGC	36120
2017	9013	CCCCCGA	G AUGUGCU	14386	AGCACAU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGCGGGG	36121
2058	8972	AAAAUUU	G GAUCUUA	14387	UGAAGAU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAAUUUU	36122
2059	8971	AAAAUUU	G AUUUUUA	14388	UUGAAGAU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAAAUUUU	36123
2078	8952	GCUCUCU	G GCGUCUC	14389	AGGAGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGAGAAAGC	36124
2092	8938	CCUCCAU	G AUUCUGU	14390	AGCAGAU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGGAGG	36125
2111	8919	UCAAACU	G GCACCCAA	14391	UUGGUGC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGUUUGA	36126
2135	8895	UUCUGUU	G ACCUUUC	14392	AGAAAGGU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACAGCAA	36127
2147	8883	UUCUUU	G AAUUCUC	14393	GAGGAUU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUAAGAAA	36128
2158	8872	UUCUCUC	G AGAGCACA	14394	UGUGUCU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAGAGGAA	36129
2160	8870	CCUCUCA	G AGCACAU	14395	AAUGUGU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCGAGAGG	36130
2171	8859	CACAUUC	G GGACGUU	14396	AAACGUCC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGAAUGUG	36131
2172	8858	ACAUCUG	G GACGUUU	14397	AAAACGUC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGAAUGU	36132
2173	8857	CAUUCUG	G ACGUUUU	14398	AAAACGU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCAGAAUG	36133
2186	8844	UUUCUCU	G GCCAAAA	14399	UUUUGGC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGAGAAAA	36134
2210	8820	AACAGUU	G GUGGUCU	14400	GAGACCAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACUGGUU	36135
2213	8817	CAGUUGU	G GUCUCAU	14401	AAUGAGAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	ACCAACUG	36136
2222	8808	GUCUCAU	G AGCACGUA	14402	UACGUGU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAUGAGAC	36137
2244	8786	CUCUUCU	G GCGGUUCA	14403	UGAACCGC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGAAGGAG	36138
2247	8783	CUUCUGC	G GUUCAGGA	14404	UCCUGAAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCCAGAA	36139
2253	8777	GCGGUUA	G GAGUUUC	14405	GAAAGCUC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGAACCCG	36140
2254	8776	CGGUUCAG	G AGCUUUC	14406	CGAAAGCU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUGAACCG	36141
2279	8751	UUCUCUU	G AACACUC	14407	CGAGUGUU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAGAGAA	36142
2297	8733	UGCUGCC	G AAGGGAGU	14408	ACUCCCUU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGGCAGCA	36143
2300	8730	UGCCGAA	G GGAGUAGU	14409	ACUACUCC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUCGGGCA	36144
2301	8729	CCCCAAG	G GAGUAGU	14410	CACUACU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUUCGGGC	36145
2302	8728	CCCCAAG	G AGUAGU	14411	ACACUACU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCUUCGGG	36146
2318	8712	UCAGUCAU	G GCCAUUGU	14412	ACCAUGGC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGACUGA	36147
2324	8706	AUGGCCAU	G GUGGUAAC	14413	GUUACCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGGCCAU	36148
2327	8703	GCCAUGGU	G GUAAACAU	14414	AAUGUUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	ACCAUGGC	36149
2339	8691	ACAUCUGU	G AUGGUGUC	14415	GACACCAU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	ACGAAUGU	36150
2342	8688	UUCGUCAU	G GUGUCCCA	14416	UGGGACAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUCACGAA	36151
2352	8678	UGUCCCAU	G GUUUUGAG	14417	CUCAAAAC	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGGGACA	36152

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2358	8672	AUGGUUU G AGAGGAGC	14418	GUCCUCU GGAGGAAACUCCUUAAGGACAUUGUCCGG AAAACCAU	36153
2360	8670	GUUUUGA G AGGAGCU	14419	AGGUCUCU GGAGGAAACUCCUUAAGGACAUUGUCCGG UCAAAACC	36154
2362	8668	UUUGAGA G GAGCCUGA	14420	UCAGGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG UCUCAAAA	36155
2363	8667	UUUGAGG G AGCCUGAC	14421	GUAGGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG CUCUAAAA	36156
2369	8661	AGGAGCU G ACCAUCC	14422	GGAGGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG AGGCUCAA	36157
2381	8649	ACUCCAU G ACCAGCGA	14423	UCGUGU GGAGGAAACUCCUUAAGGACAUUGUCCGG AAUGGAGU	36158
2388	8642	UGACGAG G AACUGCG	14424	CGCCAGU GGAGGAAACUCCUUAAGGACAUUGUCCGG GCUGGUCA	36159
2393	8637	AGCGAAU G GCGGAGCC	14425	GGCUCGC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGUUCGCU	36160
2396	8634	GAACUGG G GAGCCUGU	14426	ACAGGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG GCCAGUUC	36161
2397	8633	AACUGCG G AGCCUGUG	14427	CACAGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG CGCCAGU	36162
2405	8625	GAGCCUG G GGCUCAC	14428	GUGAAGC GGAGGAAACUCCUUAAGGACAUUGUCCGG ACAGGCUC	36163
2406	8624	AGCCUGG G GCUUCACA	14429	UGUGAAGC GGAGGAAACUCCUUAAGGACAUUGUCCGG CACAGGCU	36164
2428	8602	ACUGCCU G AUGUUCU	14430	GGAACUA GGAGGAAACUCCUUAAGGACAUUGUCCGG ACGGCAGU	36165
2438	8592	UAGUCCA G GUUCUAUA	14431	UAUAGAA GGAGGAAACUCCUUAAGGACAUUGUCCGG UGGAACUA	36166
2448	8582	UUCUAUA G GUGGUUUC	14432	GAACACC GGAGGAAACUCCUUAAGGACAUUGUCCGG AUUAAGAA	36167
2449	8581	UCUAUAU G GUGGUUUC	14433	AGAACCA GGAGGAAACUCCUUAAGGACAUUGUCCGG CAUAUAGA	36168
2452	8578	AUAUGGU G GUUCUCAU	14434	AUGAGAA GGAGGAAACUCCUUAAGGACAUUGUCCGG ACCCAUAU	36169
2464	8566	CUAUCGU G GUGCCAGG	14435	CGUGGC GGAGGAAACUCCUUAAGGACAUUGUCCGG ACGAUAG	36170
2475	8555	GCCACGU G AACUUAU	14436	GUACAGU GGAGGAAACUCCUUAAGGACAUUGUCCGG GAGGUGGC	36171
2492	8538	UCAGGCU G AGUCGUUC	14437	GAACGAC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGGCGUGA	36172
2513	8517	CUGUUCU G AUUUUAU	14438	AGUAAAU GGAGGAAACUCCUUAAGGACAUUGUCCGG AGAAACAG	36173
2522	8508	AUUUAU G GUGUCUGA	14439	UCAGCAC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGUAAAAU	36174
2529	8501	UGGUGU G AGUUGAGC	14440	GCUGAAC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGACACCA	36175
2534	8496	UCUGAUU G AGCAGGGG	14441	CCCCUG GGAGGAAACUCCUUAAGGACAUUGUCCGG AACUCAGA	36176
2539	8491	GUUGACA G GGUUUUUC	14442	GAACACC GGAGGAAACUCCUUAAGGACAUUGUCCGG UGCUCAAC	36177
2540	8490	UUGAGCAG G GGUUUUCC	14443	GGAAACC GGAGGAAACUCCUUAAGGACAUUGUCCGG CUGCTCAA	36178
2541	8489	UGAGCAGG G GUUUUCCC	14444	GGGAAAC GGAGGAAACUCCUUAAGGACAUUGUCCGG CCUGCUCA	36179
2558	8472	ACGCCCC G GUUCCACU	14445	AGUGAAC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGGCGGUU	36180
2593	8437	CUUGAUU G GGUUCCU	14446	AGGACCC GGAGGAAACUCCUUAAGGACAUUGUCCGG AAUACGAG	36181
2594	8436	UCGUUUG G GGUUCCU	14447	AAGGACC GGAGGAAACUCCUUAAGGACAUUGUCCGG CAUACGA	36182
2595	8435	CGAUUUG G GUUCCUUC	14448	GAAGGAC GGAGGAAACUCCUUAAGGACAUUGUCCGG CCAUACG	36183
2606	8424	CCUCCA G GUUUUUU	14449	AAAGGAC GGAGGAAACUCCUUAAGGACAUUGUCCGG UGGAAGGG	36184
2629	8401	UCUCCA G GAGCACU	14450	AGGUGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG UAGGAAGA	36185
2630	8400	CUUCCAG G AGCACCUG	14451	CAGGUGU GGAGGAAACUCCUUAAGGACAUUGUCCGG CUAGGAAG	36186
2638	8392	GAGCACU G GCUUGUCA	14452	UGACCAGC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGGUGCUC	36187
2642	8388	ACCUGGU G GUCAUAU	14453	AAUAGAC GGAGGAAACUCCUUAAGGACAUUGUCCGG AGCCAGGU	36188
2655	8375	UAUACAU G AUGUACC	14454	GUUACAU GGAGGAAACUCCUUAAGGACAUUGUCCGG AGUGAAUA	36189
2673	8357	CAUUGCU G AAGCUGA	14455	UCGAGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG AGGCAUUG	36190
2680	8350	UGAAGCU G ACUCACC	14456	GGUGAGU GGAGGAAACUCCUUAAGGACAUUGUCCGG GAGCUUCA	36191
2705	8325	UCGUGGU G GAUUUCCG	14457	CGGAAU GGAGGAAACUCCUUAAGGACAUUGUCCGG ACGCACGA	36192

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2706	8324	CGUGCGUG G AAUUCGGU	14458	ACGGAAUU GGAGGAAACUCCUUAAGGACAUUGUCCGG CACGACAG	36193
2715	8315	AAUUCGU G AGAGUGGG	14459	CCCACUU GGAGGAAACUCCUUAAGGACAUUGUCCGG ACGGAAUU	36194
2717	8313	UUCGUGA G AGUGGUU	14460	AACCCACU GGAGGAAACUCCUUAAGGACAUUGUCCGG UCACGGAA	36195
2721	8309	GUGAGAU G GGUUUCUG	14461	CAGAAACC GGAGGAAACUCCUUAAGGACAUUGUCCGG ACUCUCAC	36196
2722	8308	UGAGUGG G GUUUCUGA	14462	UCAGAAAC GGAGGAAACUCCUUAAGGACAUUGUCCGG CACUCUCA	36197
2729	8301	GGGUUCU G ACCAGUCC	14463	GGACUGGU GGAGGAAACUCCUUAAGGACAUUGUCCGG AGAAACCC	36198
2749	8281	CCCAUAC G GGUUGGA	14464	UCCAAGC GGAGGAAACUCCUUAAGGACAUUGUCCGG GUAUUGG	36199
2755	8275	CCGCGUU G GAGCAGU	14465	AGCUGUC GGAGGAAACUCCUUAAGGACAUUGUCCGG AACGCCG	36200
2756	8274	CGGCGUG G AGCAGUC	14466	GAGCUGU GGAGGAAACUCCUUAAGGACAUUGUCCGG CAACGCCG	36201
2777	8253	UUCUCUAU G ACUUUCGG	14467	CCGAAAGU GGAGGAAACUCCUUAAGGACAUUGUCCGG AUAGAGAA	36202
2784	8246	UGACUUC G GCAUGUAG	14468	CUACAUGC GGAGGAAACUCCUUAAGGACAUUGUCCGG GAAAGUCA	36203
2792	8238	GGCAUGA G GGGCAGAG	14469	CUUCGCC GGAGGAAACUCCUUAAGGACAUUGUCCGG UACAUGCC	36204
2793	8237	GCAUGUAG G GGCAGAGC	14470	GCUCUGC GGAGGAAACUCCUUAAGGACAUUGUCCGG CUACAUGC	36205
2794	8236	CAUGUAGG G GCAGAGCA	14471	UGCUCUGC GGAGGAAACUCCUUAAGGACAUUGUCCGG CCUACAUG	36206
2798	8232	UAGGGCA G AGCACCUU	14472	AAGUGCU GGAGGAAACUCCUUAAGGACAUUGUCCGG UGCCCUA	36207
2823	8207	AUUCUUU G GCCUCGG	14473	CCGAGGC GGAGGAAACUCCUUAAGGACAUUGUCCGG AAGGAAU	36208
2830	8200	UGGCCUC G GUGCAGCC	14474	GGCUGAC GGAGGAAACUCCUUAAGGACAUUGUCCGG GAGGCCA	36209
2857	8173	CAUUCAA G GACCCGAA	14475	UUCGGUC GGAGGAAACUCCUUAAGGACAUUGUCCGG UUGAAAUG	36210
2858	8172	AUUCUAG G ACCCGAAU	14476	AUUCGGU GGAGGAAACUCCUUAAGGACAUUGUCCGG CUUGAAU	36211
2863	8167	AAGACCC G AAUCGUCC	14477	GGACGAU GGAGGAAACUCCUUAAGGACAUUGUCCGG GGUCCUU	36212
2895	8135	CAGCAUU G ACGAGGAC	14478	GUUCUGU GGAGGAAACUCCUUAAGGACAUUGUCCGG AAGUUCU	36213
2898	8132	CACUUGAC G AGGACUUC	14479	AGAGUCCU GGAGGAAACUCCUUAAGGACAUUGUCCGG GUCAAGUG	36214
2900	8130	CUUGACGA G GACUCUCC	14480	GGAGAGU GGAGGAAACUCCUUAAGGACAUUGUCCGG UCGUCAAG	36215
2901	8129	UUGACGAG G ACUCUCCG	14481	CGGAGAGU GGAGGAAACUCCUUAAGGACAUUGUCCGG CUCGUCAA	36216
2909	8121	GACUCUCC G AUGUCACA	14482	UGUGACAU GGAGGAAACUCCUUAAGGACAUUGUCCGG GGAGAGUC	36217
2920	8110	GUCACAAA G GAGGUGU	14483	ACACCCUC GGAGGAAACUCCUUAAGGACAUUGUCCGG UUGUGAC	36218
2921	8109	UCACAAAG G AGGGUGUC	14484	GACACCCU GGAGGAAACUCCUUAAGGACAUUGUCCGG CUUUGUGA	36219
2923	8107	ACAAAGGA G GGUGUCAC	14485	GUGACACC GGAGGAAACUCCUUAAGGACAUUGUCCGG UCCUUUGU	36220
2924	8106	CAAAGGAG G GUGUCACA	14486	UGUGACAC GGAGGAAACUCCUUAAGGACAUUGUCCGG CUCCUUUG	36221
2940	8090	AACACUA G AAGGUUCG	14487	CAGACCUU GGAGGAAACUCCUUAAGGACAUUGUCCGG UGAGUGUU	36222
2943	8087	ACUCAGAA G GUCUGUAG	14488	CUACAGAC GGAGGAAACUCCUUAAGGACAUUGUCCGG UUCUGAGU	36223
2951	8079	GGUCUGUA G AACACAU	14489	GAUGUGU GGAGGAAACUCCUUAAGGACAUUGUCCGG UACAGACC	36224
2975	8055	CUUCUAU G GUGACAAU	14490	AUUGUCAC GGAGGAAACUCCUUAAGGACAUUGUCCGG AUGAAGAG	36225
2978	8052	UUCAGUU G ACAUGUU	14491	AACAUUGU GGAGGAAACUCCUUAAGGACAUUGUCCGG ACCAUGAA	36226
3010	8020	CACUAUU G GGGUCUU	14492	AAGAGCC GGAGGAAACUCCUUAAGGACAUUGUCCGG AACUAGU	36227
3011	8019	ACUAGUG G GGCUCUC	14493	GAAGAGC GGAGGAAACUCCUUAAGGACAUUGUCCGG CAACUAGU	36228
3012	8018	CUAGUUG G GCUCUUA	14494	UGAAGAGC GGAGGAAACUCCUUAAGGACAUUGUCCGG CCAACUAG	36229
3026	8004	UCAUGUC G GACCGCC	14495	GGCGGUCC GGAGGAAACUCCUUAAGGACAUUGUCCGG GGACAUGA	36230
3027	8003	CAUGUCG G GACCGCC	14496	GGCGGUU GGAGGAAACUCCUUAAGGACAUUGUCCGG CGGACAUG	36231
3028	8002	AUGUCGG G ACCGCCU	14497	AGSGCGU GGAGGAAACUCCUUAAGGACAUUGUCCGG CCGGACAU	36232

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3050	7980	UACCCUCU G ACUUCUUG	14498	CAAGAAAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGAGGGUA	36233
3058	7972	GACUUCU G GACUCUUU	14499	AAAGAGUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGAAGUC	36234
3059	7971	ACUUCUUG G ACUCUUUU	14500	AAAAGAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAAGAAGU	36235
3070	7960	UCUUUUU G GGUUGCA	14501	UGGCAACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAAAAAGA	36236
3071	7959	CUUUUUU G GUUGCCAU	14502	AUGGCAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAAAAAAG	36237
3112	7918	ACAUCAA G GUCAUCA	14503	UGAUUAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGAUUG	36238
3128	7902	ACUUUCC G ACCGGUUC	14504	GAACUGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGAAGAAGU	36239
3132	7898	UUCCGACC G GUUCGAGA	14505	UCUCGAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGUCCGAA	36240
3137	7893	ACCGGUUC G AGAAGCU	14506	AGGUUUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAACCCGU	36241
3139	7891	CGGUUCGA G AAACCUCC	14507	GGAGGUUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCGAAACCG	36242
3152	7878	CUCCGUUC G ACCAGCCA	14508	UGGCUGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAACGGAG	36243
3183	7847	UGCCCUUA G AGACUGGA	14509	UCCAGUCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UAGGGGCA	36244
3185	7845	CCCUUAGA G ACUGGAUG	14510	CAUCCAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCUAGGGG	36245
3189	7841	UAGAGACU G GAUGCCU	14511	AGGGCAUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGUCUCUA	36246
3190	7840	AGAGACUG G AUGCCUUC	14512	GAGGGCAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAGUCUCU	36247
3203	7827	CCUCCAGU G ACAUUGCC	14513	GGCAUUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACUGGAGG	36248
3221	7809	UCUUUCCU G GCGUGUUU	14514	AAACACGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGGAAAGA	36249
3237	7793	UUGCCGU G AGCGAUCG	14515	CGAUCGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGCGGCAA	36250
3241	7789	CGCUGAGC G AUCGACUU	14516	AAUCGGAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GCUCAGCG	36251
3245	7785	GAGCGAUC G ACUUCGAU	14517	AUCGAAAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAUCGCUC	36252
3251	7779	UCGACUUC G AUGAUGGC	14518	GCCAUCAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAAGUCGA	36253
3254	7776	ACUUCGAU G AUGGCCUC	14519	GAGGCCAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUCGAAAGU	36254
3257	7773	UCGAUGAU G GCCUCUUU	14520	AAAGAGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUCAUCCA	36255
3268	7762	CUCUUUGC G GUACCUAG	14521	CUAGGUAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GCAAAGAG	36256
3278	7752	UACCUAGU G AACUCUUC	14522	GAAGAGUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACUAGGUA	36257
3298	7732	UGUCAUCU G GUUGAGUC	14523	GACUCAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGAUGACA	36258
3302	7728	AUCUGGUU G AGUCUUUC	14524	GAAAGACU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AACCAGAU	36259
3329	7701	UCUCCCAA G GUGCGUCC	14525	GGACGCAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGAGA	36260
3363	7667	UUAGUCCU G GUUUUCC	14526	GGAAAAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGGACUAA	36261
3383	7647	UUCUUUAU G AGUUGCCA	14527	UGGACACU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUAAGAA	36262
3398	7632	CAUGUUAU G GAUAGACA	14528	UGUUAUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUAAACAU	36263
3399	7631	AUGUUUUG G AUAGACAU	14529	AUGUCUAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAUAACAU	36264
3403	7627	UAUGGAUA G ACAUGACA	14530	UGUCAUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUUCCAUA	36265
3408	7622	AUAGACAU G ACNACCAA	14531	UTUGUUUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUGUCUAU	36266
3428	7602	CCACGCAU G AUGUGGCA	14532	UGCCACAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUGCUGUG	36267
3433	7597	CAUGAUGU G GCGAGUC	14533	GACUCUGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACAUCAUG	36268
3437	7593	AUGUGGCA G AGUCCGAU	14534	AUCGGACU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGCCACAU	36269
3443	7587	CAGAUCC G AUGGCAGU	14535	ACUGCCAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGACUCUG	36270
3446	7584	AGUCCGAU G GCGAUUGU	14536	ACAACUGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUCGGACU	36271
3468	7562	UCCAAACA G AGCUUGCU	14537	AGCAAGCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGUUUGGA	36272

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3503	7527	ACGCGUC G GCGUGAU	14538	AUCACGGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCAGCGGU	36273
3509	7521	GGGCGGU G AUCAAAU	14539	AUUUGAU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACGCGCGC	36274
3521	7509	AAAUUCC G GCUUCUG	14540	CGAGAAGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGAAUUUU	36275
3543	7487	UUCACAC G ACGGGUUC	14541	GAACCCGU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGUGAAGA	36276
3546	7484	UCACAGA G GGUUCACU	14542	AGUGAAC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUCUGUGA	36277
3547	7483	CACAGAG G GUUCACUA	14543	UAGUGAAC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGUCUGUG	36278
3568	7462	UGCAGCUA G AGACACCA	14544	UGGUGUCU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UAGUCUGA	36279
3570	7460	CAGCUAG G ACACCAAG	14545	CUUGUGU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCUAGCUG	36280
3578	7452	GACACCA G AUCAGCAU	14546	AUGCUGAU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UUGGUGUC	36281
3587	7443	AUCAGCAU G AUGUGUC	14547	GGACAGAU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGCUGAU	36282
3611	7419	UUCUGCAU G AUGGGUGU	14548	ACACCCAU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGCAGAA	36283
3614	7416	UGCAUGAU G GUGUGUGU	14549	ACCACACC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUCAUGCA	36284
3615	7415	GCAUGAU G GUGUGUGU	14550	CACCACAC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUCAUGC	36285
3620	7410	AUGGUGU G GUGCGUC	14551	GAGGCGAC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACACCCAU	36286
3636	7394	CUAAUUCU G GGACGUCC	14552	GGAGCGUC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGAAUUG	36287
3637	7393	UAAUUCUG G GACGUCCG	14553	CGGACGUC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGAAUUA	36288
3638	7392	AAUUCUG G ACGUCCGU	14554	ACGGACGU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CCAGAAUU	36289
3647	7383	ACGUCCGU G GCCACGAU	14555	AUCGUGGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACGGACGU	36290
3653	7377	GUGGCCAC G AUGCCAU	14556	GAUGGCAU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUGGCCAC	36291
3680	7350	UUCUUCAU G AUUCCGGC	14557	GCCGGAU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGAAGAA	36292
3686	7344	AUGAUCC G GCCGUGU	14558	ACAGCGGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGAAUCAU	36293
3703	7327	CGCGCGU G GCGUGAGC	14559	GUCAGCC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCGCGG	36294
3704	7326	GC CGCGU G GCUAGAGG	14560	CGCUCAGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGCGCGG	36295
3708	7322	GCUGGCU G AGCGCAU	14561	AAUGCGCU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCCCGAC	36296
3734	7296	UGCCAAC G GGAACCAU	14562	AUGGUUCC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGUUGGCA	36297
3735	7295	GCCAACG G GAACCAUG	14563	CAUGGUUC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGGUUGGC	36298
3736	7294	CCAACCG G AACCAUGU	14564	ACAUGGUU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CCGUUUGG	36299
3746	7284	ACCAUGUA G GCAUAGUG	14565	CACUAUGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UACAUGGU	36300
3754	7276	GGCAUAGU G GCAAAAA	14566	UUUUUUGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACUAUGCC	36301
3763	7267	GCAAAAA G GAGUGUUG	14567	CAACACUC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UUUUUUGC	36302
3764	7266	CAAAAAA G AGUGUUGC	14568	GCAACACU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUUUUUUG	36303
3788	7242	ACCGUAC G GUGAGGUG	14569	ACCCUCAC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUUACGGU	36304
3791	7239	GUAAACGU G AGGUGAC	14570	GUCACCCU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACCGUUC	36305
3793	7237	AACGGUGA G GGUGACUU	14571	AAGUCACC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCACCCGU	36306
3794	7236	ACGGUAG G GUGACUUG	14572	CAAGUCAC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUCACCGU	36307
3797	7233	GUGAGGUG G ACUUGUCC	14573	GGACAAGU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	ACCCUCAC	36308
3815	7215	CAGCAUCC G GCUUGUAG	14574	CUAGCAGC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGAUGCUG	36309
3826	7204	UGCUGACA G GAGAGCGG	14575	CGGCUCUC	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGCUAGCA	36310
3827	7203	GCUGCAG G AGAGCCGA	14576	UCGGCUCU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUGCUAGC	36311
3829	7201	UAGCAGGA G AGCCGACA	14577	UUCGCGCU	GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCCUGCUA	36312

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3834	7196	GGAGAGCC G ACACUCCA	14578	UGGAGUGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GGCUCUCC	36313
3848	7182	CCAAACUC G ACGAAGGG	14579	CCCUCCGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GAGUUGUG	36314
3851	7179	ACAUCCAG G AAGGGGAA	14580	UUCUCCUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GUCGAUGU	36315
3854	7176	UGACAGAA G GGAAGGCC	14581	GGCUUCCC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UUCGUCCA	36316
3855	7175	CGACGAAG G GGAAGCCU	14582	AGGCUUCC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CUUCGUCC	36317
3856	7174	GACGAAGG G GAAGCCUC	14583	GAGGCUUC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CCUUCGUC	36318
3857	7173	ACGAAGGG G AAGCCUCG	14584	CGAGGCUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CCUUCGUC	36319
3869	7161	CCUCCGCC G AGUGUAAA	14585	UUCACACU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GGCGGAGG	36320
3875	7155	GGGAGUGU G AAUAGUGC	14586	GCACUAUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACACUCCG	36321
3892	7138	ACUUGCCU G AACGUUUA	14587	UAAACGUT	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGGCAAGU	36322
3903	7127	CGUUUAUU G AGGUCRAU	14588	AUUGACCU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AAUAAAACG	36323
3905	7125	UUUAUUGA G GUCAUUGA	14589	UCAUUGAC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UCAAUAAA	36324
3912	7118	AGGUCRAU G AGGUGUUG	14590	CAAACACU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AUUGACCU	36325
3914	7116	GUCAUUGA G GUGUUGAU	14591	AUCAACAC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UCAUUGAC	36326
3920	7110	GAGGUGUU G AUGUAAUC	14592	GAUUAUAC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AACACCCU	36327
3930	7100	UGUAUUCU G ACGUGAUC	14593	GAUCACGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGAUAUACA	36328
3935	7095	UCUGACGU G AUCAAUUG	14594	CAUUUGAU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACGUACAGA	36329
3954	7076	UUAGCAGU G GAGUGAGG	14595	CCUCACUC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACUGCUAA	36330
3955	7075	UAGCAGUG G AGUGAGGA	14596	UCCUCACU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CACUGCUA	36331
3959	7071	AGUGGAGU G AGGACCCG	14597	GCGGUCUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACUCCACU	36332
3961	7069	UGGAGUGA G GACCGCUG	14598	CAGCGGUC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UCACUCCA	36333
3962	7068	GGAGUGAG G ACCGCUUG	14599	ACAGCGGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CUACAUCC	36334
3987	7043	GUUACAGU G ACCAGGCU	14600	AGCUGUGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACUGUACG	36335
3992	7038	AGUGACCA G GUGUUGUC	14601	GCAACAGC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UGGUCACU	36336
4002	7028	UGUUGGCC G GCCUCAAG	14602	CUUGAGGC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GGCAACAG	36337
4018	7012	GUCCAAAA G AAACUCUC	14603	GAGAGUUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UUUUGGAC	36338
4034	6996	CCCAUGCU G AAUUCUUC	14604	GAGAAUUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGCAUUGG	36339
4046	6984	UUCUCUUU G ACCUCAAU	14605	AUUGAGGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AAGGAGAA	36340
4088	6942	UACUCUUU G GUCUUAUC	14606	GAUAAAGC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AAGAGUGA	36341
4115	6915	AUCUCUUU G GUGGCCAC	14607	GUGGCAGC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AACGAGAU	36342
4135	6895	GCUCACAA G GGUCAUGA	14608	UCAUGACC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UUUGAGAC	36343
4136	6894	CUACACAG G GUCAUGAC	14609	GUCAUGAC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CUUGUGAG	36344
4142	6888	AGGGUCUA G ACACAAAU	14610	AUUUGUGU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AUGACCCU	36345
4153	6877	ACAAUUA G GAACACGG	14611	CCGUGUUC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UGAUUUUG	36346
4154	6876	CAAUACAG G AACACGGC	14612	GCCGUGUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CUGAUUUG	36347
4160	6870	AGGAACAC G GCUAGCUG	14613	CAGCUAGC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GUGUUCUU	36348
4168	6862	GGCUAGCU G GUUGUCUG	14614	CAGACAAC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGCUAGCC	36349
4182	6848	GGUCUCGC G AACGUUGC	14615	GCAACGUU	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GCAGACAG	36350
4197	6833	CGUUCUCU G GCUCAGGA	14616	UCCUGAGC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGAGAAGC	36351
4203	6827	CUGGCCUA G GAUUUAGC	14617	GCUAAUUC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UGAGCCAG	36352

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4204	6826	UGGUCAG G AAUAGCA	14618	UGC A A U U	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CUGAGCCA	36353
4223	6807	AUCAUA G AGAAGGA	14619	UCCUUCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUGAUGAU	36354
4225	6805	CAUCAAG A AGGGAGA	14620	UCUCCUU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UCUUGAUG	36355
4228	6802	CAAGAGN A GGAGAGA	14621	UGCUCUC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUCUCUUG	36356
4229	6801	AAGAGA G GAGAGAG	14622	CUGCUCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CUUCUCUU	36357
4230	6800	AGAGAAG G AGAGCAG	14623	GCUGUCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CCUUCUCU	36358
4232	6798	AGAAGGA G AGCAGCA	14624	UUGCUGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UCCUUCUU	36359
4247	6783	AACAUCC G GCGAUCU	14625	AAGAGCG	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	GGAUUGUU	36360
4250	6780	AUCCGGC G AUCUUGU	14626	ACGAAGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	GCCGGAUU	36361
4263	6767	UCGUUCU G GAACUUA	14627	UGAAGUUC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AGGAACGA	36362
4264	6766	CGUUCUG G AACUUCAG	14628	CUGAAGUU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CAGGAACG	36363
4283	6747	AUCCACA G AAAAGGU	14629	ACCUUUU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UGUUGGAU	36364
4289	6741	CAGAAAA G GUCGGAC	14630	GUCGGAC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUUUUCUG	36365
4295	6735	AAGGUCG G ACUCCAA	14631	UUGGGAGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	GCGACCUU	36366
4304	6726	ACUCCAA G ACAGCGCC	14632	GGCGCUGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUGGGAGU	36367
4349	6681	CGUGCAU G AGGAGGA	14633	UUCUCCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AUGCAGCG	36368
4351	6679	CUGCAUG A GAGGAAGA	14634	UUUCCUC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UCAUGCAG	36369
4352	6678	UGCAUGA G AGGAAGA	14635	UUUUCCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CUCAUGCA	36370
4354	6676	CAUGAGA G GAAGAAUA	14636	UAUUUCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UCCUCAUG	36371
4355	6675	AUGAGAG G AAGAAUAC	14637	GUUUUCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CUCCUCAU	36372
4358	6672	AGGAGAA G AAUACUCC	14638	GGAGUAU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUCCUCCU	36373
4370	6660	ACUCCAU G GUCAUCAC	14639	GUGAUGAC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AUGGGAGU	36374
4388	6642	CUCAUAA G GCAUCRA	14640	UUGAUUGC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUUUUAG	36375
4397	6633	GCAUCAA G GCAUUUGU	14641	ACAAUUGC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUGAUUGC	36376
4408	6622	AAUUGUC G AAGAGCAU	14642	AUGCUCU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AGACAAUU	36377
4411	6619	UGUCGAA G AGCAUCUG	14643	CAGAUGC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UUCAGACA	36378
4419	6611	GAGCAUC G GCAGUCC	14644	GGAACUGC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AGAUGCUC	36379
4432	6598	UCCUCCA G GGCCAUUC	14645	GAAUGGC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UGGAGGAA	36380
4433	6597	UCCUCCAG G GCCAUUCU	14646	AGAAUGG	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	CUGGAGGA	36381
4444	6586	CAUUCUG G AGCUUUC	14647	GAAGAGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	ACAGAAUG	36382
4469	6561	UCUGCAGU G GCCACAAC	14648	GUUGUGC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	ACUGCAGA	36383
4484	6546	ACGUACAU G GUGUCAAG	14649	CUUGACAC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AUGUACGU	36384
4514	6516	UUCCCAU G AAGUCUC	14650	GAGCACU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AUGGGGAA	36385
4524	6506	AGUCUCA G GCAUUCU	14651	AAAGAGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UGAGCACU	36386
4537	6493	CUUCCCA G AACCUCAA	14652	UUGAGGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UGGGAAAG	36387
4547	6483	ACUCAAU G AGCCUAU	14653	AUAGGGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AUTGAGGU	36388
4558	6472	CCCUAUC G AGAAGUU	14654	AACGUUC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	AGAUAGGG	36389
4560	6470	CUAUCUG A AACGUUU	14655	AAAACGU	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UCAGAUAG	36390
4572	6458	GUUUCCC G AGGCGAAG	14656	CUUCGCC	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	GGGAAAC	36391
4574	6456	UUUCCCA G GCGAAGUC	14657	GACUUCG	GGAGG A A A C U C C C U U C A A G G A C A U C G U C C G G	UCGGGAAA	36392

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4577	6453	CCCGAGG C AAGUCCU	14658	AAGGACU GAGGAAACUCCUUAAGGACAUCGUCGGG	36393
4586	6444	AAGUCCU G AACGCCU	14659	AAGCGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36394
4603	6427	UAGUGCU G UGAUCCG	14660	CGGAUCAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36395
4606	6424	UGCCUGU G AUCCGAGU	14661	ACUCGGAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36396
4611	6419	GGUGAUC G AGUACACC	14662	GGUGUACU GAGGAAACUCCUUAAGGACAUCGUCGGG	36397
4622	6408	UACACCU G GCGUCAAU	14663	AUUGACGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36398
4638	6392	UCCAGGC G GCCUCAGA	14664	UCUGAGGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36399
4645	6385	CGGCCUA G AAUCUCC	14665	GGAAGAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36400
4670	6360	AGCUUGU G AUGACUUC	14666	GGAUGAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36401
4673	6357	UUCGUAU G ACUUCAC	14667	GUGGAAGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36402
4716	6314	UUGUCCU G GACCAUCA	14668	UGAUGGUC GAGGAAACUCCUUAAGGACAUCGUCGGG	36403
4717	6313	UGUCCUAG G ACCAUCAA	14669	UUGAUGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36404
4738	6292	CCACCUCC G GUUGUGU	14670	ACCACGAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36405
4744	6286	CCGUGCU G GUAUGACA	14671	UGUCAUAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36406
4749	6281	CGUGUAU G ACACUCCA	14672	UGGAGUGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36407
4788	6242	GCCAAACU G GCAGAUU	14673	AGAUCUGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36408
4792	6238	AACUGGA G AUCUGCAG	14674	CUGCAGAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36409
4816	6214	CAGUCCA G AAAGUUU	14675	AAAACUUU GAGGAAACUCCUUAAGGACAUCGUCGGG	36410
4841	6189	UCUCCU G AGCCGUA	14676	UACCGGCU GAGGAAACUCCUUAAGGACAUCGUCGGG	36411
4846	6184	UCUGAGC G GUUUCUCC	14677	GGGAUAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36412
4862	6168	CCAUCAU G GUUAUAC	14678	GUUAUAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36413
4884	6146	CACGCU G GUUGUAG	14679	CUACCAAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36414
4888	6142	CUCUGU G GUAGAAU	14680	AAUUCUAC GAGGAAACUCCUUAAGGACAUCGUCGGG	36415
4892	6138	GGUUGUA G AAUUGAGC	14681	GCUCAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36416
4897	6133	GUAGAAU G AGCGAUA	14682	UGAUCGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36417
4901	6129	AAUUGAGC G AUCAGUCC	14683	GGACUGAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36418
4914	6116	GUCCGUU G GCAUGUUG	14684	CAACAUGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36419
4922	6108	GGCAUGU G AUGUUGUC	14685	GACAAAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36420
4937	6093	UCCAGCAU G AUUCGUGC	14686	GCACGAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36421
4957	6073	AGUCCAU G GCGAAGU	14687	ACUUCGCC GAGGAAACUCCUUAAGGACAUCGUCGGG	36422
4958	6072	GUCCAU G GCGAAGU	14688	AACUUCGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36423
4961	6069	CAAUGGC G AAGUUGA	14689	UCGAACU GAGGAAACUCCUUAAGGACAUCGUCGGG	36424
4968	6062	CGAAGU G AGUCGUU	14690	AGACGACU GAGGAAACUCCUUAAGGACAUCGUCGGG	36425
5019	6011	CAACUUGC G ACAGAUU	14691	AAAUCCGU GAGGAAACUCCUUAAGGACAUCGUCGGG	36426
5022	6008	CUUGGAC G GAUUCUA	14692	UAGAAUUC GAGGAAACUCCUUAAGGACAUCGUCGGG	36427
5023	6007	UUGCGAC G AUUUCUAC	14693	GUAGAAU GAGGAAACUCCUUAAGGACAUCGUCGGG	36428
5033	5997	UUUCUACC G AUACGUCC	14694	GGACGUU GAGGAAACUCCUUAAGGACAUCGUCGGG	36429
5050	5980	ACGUCU G GCGGCAC	14695	GUGCCGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36430
5051	5979	CGUCUCU G GCGGCACU	14696	AGUGCCGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36431
5054	5976	CUCUGGC G GCACUAGC	14697	GCUAUGC GAGGAAACUCCUUAAGGACAUCGUCGGG	36432

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5076	5954	UCACUGCA G AUGGUUCU	14698	AGAACCAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGCAGUGA	36433
5079	5951	CUGCAGAU G GUUCUCCC	14699	GGGAGAAC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUCUGCAG	36434
5089	5941	UUCUCCCA G GAUCACUC	14700	GAGUGAUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGGAGGAA	36435
5090	5940	UCUCCAG G AUCACUCU	14701	AGAGUGAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CUGGAGAA	36436
5117	5913	UCUGUUAU G AUGGUUGG	14702	CCAACCAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUAACAGA	36437
5120	5910	GUUAUGAU G GUUGGUUU	14703	AAACCAAC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUCAUAAC	36438
5124	5906	UGAUGGUU G GUUUCACA	14704	UGUGAAAC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AACCAUCA	36439
5140	5890	ACUCUCC G GCUGUCAA	14705	UUGACAGC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GAAGAGAU	36440
5165	5865	CUCGCCU G AAGUUAGC	14706	GCUAACUU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAGGCGAG	36441
5184	5846	CCAUAUCA G AUAUGUCU	14707	AGACAUAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGAAAUGG	36442
5198	5832	UCUGUUGU G AUAACAAA	14708	UUUGUUAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	ACAAACAGA	36443
5232	5798	UACAUAUU G GGUACUCC	14709	GGAGUACC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAAAUGUA	36444
5233	5797	ACAUUUUG G GUACUCCG	14710	CGGAGUAC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CAAAUUGU	36445
5250	5780	UCUGGUAC G ACUUUCUG	14711	CAGAAAGU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GUACGAGA	36446
5266	5764	GUUCAUU G GCAUUCUC	14712	AAGUAGUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAUUGAAC	36447
5267	5763	UUCAAUUG G ACUACUUU	14713	AAAGUAGU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CAAUUGAA	36448
5293	5737	ACGUUGUA G GCAAAGGG	14714	CCCUUUGC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UACAAAGU	36449
5299	5731	UAGGCAA G GGCAAUCU	14715	AGAUGGCC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UUUGCCUA	36450
5300	5730	AGGCAAG G GCAUUCUC	14716	GAGAUUGC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CUUUGCCU	36451
5321	5709	CCCAUCU G ACACUAGG	14717	CCUAGUGU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAGAUGGG	36452
5328	5702	UGACACUA G GCACAAAC	14718	GUUUGUGC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UAGUGUCA	36453
5351	5679	GUUCUCC G GUGUAUUC	14719	GAAUACAC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GGGAAGAC	36454
5363	5667	UAUUCUGU G AUCCAUCU	14720	GAUUGGAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	ACAGAAUA	36455
5379	5651	CGUAUCCA G AGUUCCAA	14721	UUGGAACU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGGAUACG	36456
5392	5638	CCAAGCUC G AUCCGGGA	14722	UCCGGGAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GAGCUUGG	36457
5397	5633	CUGGAUC G GGAUCUCA	14723	UGAGAUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GGAUCCAG	36458
5398	5632	UCGAUCC G GAUCUCAG	14724	CUGAGAUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CGGAUCGA	36459
5399	5631	CGAUCCG G AUCUCAGU	14725	ACUGAGAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CCGGAUCG	36460
5417	5613	UGUAAGUC G GAAAUUGG	14726	CCAUAUUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GACUUAAC	36461
5418	5612	GUAGUCC G AUAUUGGU	14727	ACCAAUUU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CGACUUAAC	36462
5424	5606	CGGAAAU G GUGAAUUG	14728	CAUAUCCAC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAUUAUCC	36463
5427	5603	AAAUUGGU G AAUUGGAC	14729	GUCCAUAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	ACCAAUUU	36464
5432	5598	GGUGAAU G GACUCUGG	14730	CCAGAGUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAUUAACC	36465
5433	5597	GUGAAUUG G ACUCUGGG	14731	CCAGAGU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CAAUUCCAC	36466
5439	5591	UGGACUCU G GAAUUGA	14732	UCCAUAUC GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AGAGUCCA	36467
5440	5590	GGACUCUG G GAAUUGAU	14733	AUCCAUAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CAGAGUCC	36468
5441	5589	GACUCUGG G AAUGGAUC	14734	GAUCCAUA GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CCAGAGUC	36469
5445	5585	UUGGGAU G GAUCUGAA	14735	UUCAGAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUUAUCCAG	36470
5446	5584	UGGGAUUG G AUCUGAAG	14736	CUUCAGAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CAUUAUCCA	36471
5451	5579	AUGGAUCU G AAGUGCCU	14737	AGGCACAU GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AGAUAUCCAU	36472

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5460	5570	AAGUGCU G GUGGGUG	14738	CACCCAC GGAGGAAACUCCUUAAGGACAUCGUCGGG AGGCACUU	36473
5463	5567	UGCCUGU G GUGUGGU	14739	AGCCACC GGAGGAAACUCCUUAAGGACAUCGUCGGG ACCAGGCA	36474
5464	5566	GCCUGUG G GUGGGUG	14740	CAGCCAC GGAGGAAACUCCUUAAGGACAUCGUCGGG CACCAGGC	36475
5465	5565	CCUGUGG G GUGGUGU	14741	ACAGCCAC GGAGGAAACUCCUUAAGGACAUCGUCGGG CCACCAGG	36476
5468	5562	GGUGGGU G GCUGUCAU	14742	AUGACAGC GGAGGAAACUCCUUAAGGACAUCGUCGGG ACCCCACC	36477
5477	5553	GCUGUCAU G AAUAUUGC	14743	GCAUAUUG GGAGGAAACUCCUUAAGGACAUCGUCGGG AUGACAGC	36478
5504	5526	CCUAGCUC G ACCUUGU	14744	ACAAAUUG GGAGGAAACUCCUUAAGGACAUCGUCGGG GAGCUAGG	36479
5513	5517	ACCUUGU G GAAUUGA	14745	UACAUIUG GGAGGAAACUCCUUAAGGACAUCGUCGGG ACAAAGGU	36480
5514	5516	CCUUGUG G AAUUGUA	14746	UUACAUIU GGAGGAAACUCCUUAAGGACAUCGUCGGG CACAAAGG	36481
5544	5486	UGCUGGU G GGUCGGUG	14747	CACCGACC GGAGGAAACUCCUUAAGGACAUCGUCGGG AGCUAGCA	36482
5545	5485	GCUGGUG G GUCGGUGA	14748	UCACCGAC GGAGGAAACUCCUUAAGGACAUCGUCGGG CAGCUAGC	36483
5549	5481	GCUGGUG G GUGAAUG	14749	CAUUUCAC GGAGGAAACUCCUUAAGGACAUCGUCGGG GACCCAGC	36484
5552	5478	GGUGGGU G AAUUGAGC	14750	GCUCAUIU GGAGGAAACUCCUUAAGGACAUCGUCGGG ACCGACCC	36485
5557	5473	GGUGAAU G AGCCUCAU	14751	AUGAGGCU GGAGGAAACUCCUUAAGGACAUCGUCGGG AUUUCACC	36486
5573	5457	UCCAUCAC G AACAGGUU	14752	AACCCUGU GGAGGAAACUCCUUAAGGACAUCGUCGGG GUGAUGGA	36487
5578	5452	CACGAACA G GUUGUAGU	14753	ACUACAAC GGAGGAAACUCCUUAAGGACAUCGUCGGG UGUUCGUG	36488
5589	5441	UGUAGUUC G GCACCCUG	14754	CAGGUGGC GGAGGAAACUCCUUAAGGACAUCGUCGGG GAACUACA	36489
5599	5431	CACCCUGU G AGGAGACA	14755	UGUCUCCU GGAGGAAACUCCUUAAGGACAUCGUCGGG ACAGGGUG	36490
5601	5429	CCCUGUGA G GAGACAU	14756	GAUGUCUC GGAGGAAACUCCUUAAGGACAUCGUCGGG UCACAGGG	36491
5602	5428	CCUGUGAG G AGACAUA	14757	UGAUGUCU GGAGGAAACUCCUUAAGGACAUCGUCGGG CUCACAGG	36492
5604	5426	UGUGAGGA G ACAUCAGC	14758	GCUGAUGU GGAGGAAACUCCUUAAGGACAUCGUCGGG UCCUCACA	36493
5617	5413	CAGCCUGU G GGUGAGG	14759	CCUCUACC GGAGGAAACUCCUUAAGGACAUCGUCGGG ACAGGUG	36494
5618	5412	AGCCUGUG G GUGAGGUU	14760	ACCCUCAC GGAGGAAACUCCUUAAGGACAUCGUCGGG CACAGGCU	36495
5621	5409	CUGUGGU G AGGUAGC	14761	GCUAACCU GGAGGAAACUCCUUAAGGACAUCGUCGGG ACCCACAG	36496
5623	5407	GUGGUGA G GUUAGCAU	14762	AUGCUACC GGAGGAAACUCCUUAAGGACAUCGUCGGG UCACCCAC	36497
5624	5406	UGGUGAG G GUAGCAU	14763	CAUGCUAC GGAGGAAACUCCUUAAGGACAUCGUCGGG CUCACCCA	36498
5632	5398	GGUAGCAU G ACACAUGA	14764	UCAUGUGU GGAGGAAACUCCUUAAGGACAUCGUCGGG AUGCUACC	36499
5639	5391	UGACACAU G ACAUCAAC	14765	GUUGAUGU GGAGGAAACUCCUUAAGGACAUCGUCGGG AUGUGUCA	36500
5672	5358	UGUUCUCU G GGCACUGC	14766	GCAGUGCC GGAGGAAACUCCUUAAGGACAUCGUCGGG AGAGAACA	36501
5673	5357	GUUCUCUG G GCACUGOG	14767	CGCAGUGC GGAGGAAACUCCUUAAGGACAUCGUCGGG CAGAGAAC	36502
5681	5349	GGCACUGC G GAUGUCUG	14768	CAGACAUC GGAGGAAACUCCUUAAGGACAUCGUCGGG GCAGUGCC	36503
5682	5348	GCAGUGCG G AUGUCUGG	14769	CCAGACAU GGAGGAAACUCCUUAAGGACAUCGUCGGG CGCAGUGC	36504
5689	5341	GGAUGUCU G GUACCGGA	14770	UCCGGUAC GGAGGAAACUCCUUAAGGACAUCGUCGGG AGACAUCU	36505
5695	5335	CUGUACCC G GAUGGGA	14771	UGCCCAUC GGAGGAAACUCCUUAAGGACAUCGUCGGG GGUACCCAG	36506
5696	5334	UGGUACCG G AUGGGCAG	14772	CUGCCCAU GGAGGAAACUCCUUAAGGACAUCGUCGGG CGGUACCA	36507
5699	5331	UACCGGAU G GGCAGUCC	14773	GGACUGCC GGAGGAAACUCCUUAAGGACAUCGUCGGG AUCCGGUA	36508
5700	5330	ACCGGAUG G GCAGUCCU	14774	AGGACUGC GGAGGAAACUCCUUAAGGACAUCGUCGGG CAUCCGGU	36509
5744	5286	ACACCCU G GUUGGUGC	14775	GCACCAAC GGAGGAAACUCCUUAAGGACAUCGUCGGG AGGUUGU	36510
5748	5282	CCUUGGU G GUGCUAGC	14776	GCUAGCAC GGAGGAAACUCCUUAAGGACAUCGUCGGG AACCAGGG	36511
5759	5271	GCUAGCAC G GCUGUUCU	14777	AGAACAGC GGAGGAAACUCCUUAAGGACAUCGUCGGG GUGCUAGC	36512

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5783	5247	CUGUUU	G	GCCUCUU	14778	AAAGAGGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AUAAACAG	36513
5792	5238	GCCUCUU	G	AUGAUCU	14779	CAGAUAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AAAGAGGC	36514
5795	5235	UCUUGAU	G	AUCUGUG	14780	CCACAGAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AUCAAAGA	36515
5802	5228	UGAUCUGU	G	GCAGAAU	14781	GAUUCUGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	ACAGAUCA	36516
5806	5224	CUGUGCA	G	AAUCUCC	14782	GGAGGAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	UGCCACAG	36517
5825	5205	GUUUUAC	G	GCGCGGG	14783	CCCGGCGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	GGUAAAAC	36518
5831	5199	CGGCGCC	G	GGAUGAG	14784	CUCCAUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	GGCGCCGG	36519
5832	5198	CGGCGCG	G	GAUGAGA	14785	UCUCCAUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CGGCGCGG	36520
5833	5197	GCGCGCG	G	AUGGAGU	14786	AUCUCCA	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CGGCGCGC	36521
5836	5194	GCGGGAU	G	GAGAUCCA	14787	UGGAUCUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AUCCCGGC	36522
5837	5193	CCGGGAG	G	AGAUCCAG	14788	CUGGAUCU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CAUCCCGG	36523
5839	5191	GGGAUGA	G	AUCCAGUA	14789	UACUGGAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	UCCAUCUC	36524
5852	5178	AGUACAGU	G	AUCUGUU	14790	AAACAGAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	ACUGUACU	36525
5877	5153	GCAUCUCA	G	GUUCGAU	14791	AUUCGAAC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	UGAGAUGC	36526
5882	5148	UCAGGUUC	G	AAUCCGGC	14792	GCCGGAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	GAACCUGA	36527
5888	5142	UCGAUCC	G	GCUGGGAU	14793	AUCCAGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	GGAUUCGA	36528
5892	5138	AUCCGGU	G	GAUUGGC	14794	GCCAUAUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AGCCGGAU	36529
5893	5137	UCCGGUG	G	GAUUGGU	14795	AGCCAUAUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CAGCCGGA	36530
5894	5136	CCGGGUG	G	AUUGGUC	14796	GAGCCAUA	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CCAGCCGG	36531
5898	5132	CUGGAU	G	GCUAUCC	14797	GGAUAGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AAUCCCG	36532
5940	5090	UUAUGAU	G	AGCCGUUG	14798	CAACGGCU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AUACAUA	36533
5948	5082	GAGCGGU	G	GGCAUUAU	14799	AUAUAGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AACGGCUC	36534
5949	5081	AGCCGUUG	G	GCUAUUAU	14800	CAUAUAGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CAACGGCU	36535
5957	5073	GGCAUUAU	G	ACUCCAUC	14801	AAUGGAGU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AUAUAGCC	36536
6006	5024	CCACUAU	G	GUGAGCU	14802	AGGCUAC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AAUAGUGG	36537
6009	5021	CUAUUGGU	G	AGCCUGAU	14803	AUCAGGCU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	ACCAUUAU	36538
6015	5015	GUGAGCCU	G	AUGUCCA	14804	UGGAACA	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AGGCUAC	36539
6026	5004	GUUCAGU	G	GGGAAGUC	14805	GACTUCC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	ACUGGAAC	36540
6027	5003	UUCAGUG	G	GGAAGUCC	14806	GGACUCC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CACUGGAA	36541
6028	5002	UCCAGUGG	G	GAAGUCCA	14807	UGGACUUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CCACUGGA	36542
6029	5001	CCAGUGGG	G	AAGUCCAA	14808	UUGGACU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CCCACUGG	36543
6044	4986	AAAGUCC	G	GCCCGGAU	14809	AUCGGGC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	GUGACUUC	36544
6050	4980	ACGGCCC	G	AUUUCUUG	14810	GGAGAAU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	GGGGCCGU	36545
6063	4967	CUCCUCCA	G	GUGUUGG	14811	CAAAACU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	UGAAGGAG	36546
6071	4959	GGUGUUU	G	AACACCCC	14812	GGGGUUGU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AAAACACC	36547
6081	4949	ACACCCU	G	GUUUCGUC	14813	GACGAAC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AGGGGUGU	36548
6091	4939	UUUCGUCU	G	GACGUUCU	14814	AGAACGUC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	AGACGAAA	36549
6092	4938	UUCGUCUG	G	ACGUUCUU	14815	AAGAACGU	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	CAGACGAA	36550
6114	4916	UCUUGCCA	G	GUUCACCC	14816	GGUGGAAC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	UGGCAAGA	36551
6173	4857	AAUUUCCA	G	GGUCCUCC	14817	GGAGGACC	GGAGGAAACUCCUUCU	CAAGGACAUCGUCGGG	UGGAAAUU	36552

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6174	4856	AUUUCCAG G GUUCUCCG	14818	CGGAGGAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CUGGAAAU	36553
6193	4837	ACAAAGUC G AUUCUCCU	14819	AGGAGGAU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GACUUUGU	36554
6203	4827	UCCUCCUU G ACACUGCC	14820	GGCAGUGU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AAGGAGGA	36555
6219	4811	CCAGUAU G GUUCAGGC	14821	CCUGGACC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AUACUGGG	36556
6220	4810	CCAGUAU G GUUCAGGC	14822	GCCUGGAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CAUACUGG	36557
6226	4804	UGGUGUCC G GGGGCCU	14823	AGGCCGCG GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UGGACCCA	36558
6229	4801	GUCCAGG G GCCUCUC	14824	GAGAGGCG GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GCCUGGAC	36559
6251	4779	AUCAAGC G GCUCCUUU	14825	AAAGGAGC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GCUUUGAU	36560
6274	4756	AUGCCAA G GUGUGGA	14826	UCCACACC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UUUGGCAU	36561
6275	4755	UGCCAAAG G GUGUGGA	14827	UCCACAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CUUUGGCA	36562
6280	4750	AAGGGUGU G GAAACAC	14828	GUGUUUC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	ACACCCUU	36563
6281	4749	AGGGUGU G AAAACAC	14829	GGUUUUU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CACACCCU	36564
6316	4714	UCCUGUU G AUACUGC	14830	GCAGUUU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AAGCAGGA	36565
6326	4704	UAACUGC G AGCAGCC	14831	GGGUGCU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GGCAGUUA	36566
6337	4693	CAGCCAC G AGUCAUGA	14832	UCAUGACU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GUGGUGU	36567
6344	4686	CGAGUCAU G AUCCUGUA	14833	UACAGGAU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AUGACUCG	36568
6353	4677	AUCCUGUA G AGCCGGU	14834	ACCGCGU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UACAGGAU	36569
6359	4671	UAGACGC G GUGUGCU	14835	ACGACCAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GGGUCUUA	36570
6362	4668	AGCCCGU G GUCUGUC	14836	GACAGAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	ACCGGCGU	36571
6390	4640	ACUCCUU G GUGAGGA	14837	UCCUCAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AAAGGAGU	36572
6393	4637	CCUUGU G AGGGAGU	14838	CACUCCU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	ACCAAGG	36573
6395	4635	UUUGGUA G GAGUGUC	14839	GACACUC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UCACCAA	36574
6396	4634	UUGGUGA G GAGUGUC	14840	GGACACU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CUCACCAA	36575
6397	4633	UGGUGAG G AGUGUCC	14841	GGGACACU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CCUCACCA	36576
6433	4597	UGUGUAU G GAGAGUA	14842	UAAUCUC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AAUACACA	36577
6434	4596	GUGUAU G AGAGUAU	14843	AUAUCUC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CAAUACAC	36578
6436	4594	GUAUUGA G AGUAUCC	14844	GGAUAACU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UCCAUAC	36579
6459	4571	CAACUACU G AGGGCAG	14845	CUUGCCCU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AGUAGUUG	36580
6461	4569	ACUACUA G GCAAGAU	14846	AUCUUGCC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UCAGUAGU	36581
6462	4568	CUACUGA G GCAAGAU	14847	AAUCUUGC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CUCAGUAG	36582
6467	4563	GAGGGCAA G AUUGCCA	14848	UGGGCAU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UUGCCUUC	36583
6476	4554	AUUGCCA G GGGUGUA	14849	UACACCCC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UGGGCAU	36584
6477	4553	UUGCCAG G GGGUGUAC	14850	GUACACCC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CUGGGCAA	36585
6478	4552	UGCCAGG G GGUUACG	14851	CGUACAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CCUGGGCA	36586
6479	4551	GCCAGGG G GUGUACG	14852	GGGUACAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	CCUUGGGC	36587
6497	4533	CUAUCCG G AGACAGAC	14853	GUCUGUCU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	GGCAUUG	36588
6499	4531	AUUGCGA G ACAGACCA	14854	UGGUCUGU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UCCGGAU	36589
6503	4527	CCAGUCA G ACCAUUCU	14855	AGAAUGGU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AGAAUGGU	36590
6512	4518	AGAGUAC G AGCAUCCA	14856	UGGAUGCU GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	AGAAUGGU	36591
6531	4499	UCUCCAA G GUGUCUU	14857	AGGAGCAC GGAGGAAACUCCCUCAAGGACAUCGUCUCCGG	UUGGAAAG	36592

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6540	4490	GUGUCCU G GAUCAUC	14858	GAUGAUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AGGAGCAC	36593
6541	4489	UGUCCUG G AUCAUCA	14859	UGAUGAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	CAGGAGCA	36594
6551	4479	UCAUUCU G AGCUGGA	14860	UUCACGU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AUGAAUGA	36595
6556	4474	CAUGAGU G AAGUUUC	14861	GAAACUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AGCUCAUG	36596
6557	4473	UAUGAGU G AGUUUUC	14862	GAAACUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	CAGCUCAU	36597
6600	4430	UUUGCUC G AGCUGUA	14863	UACAGGU GGAGGAAACUCCUUCAGGACAUCGUCGGG	GAGCGAAA	36598
6629	4401	CUUCCCA G GAAUGUC	14864	GACAUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	UGGGAAG	36599
6630	4400	UUUCCAG G AAUUGUC	14865	GGACAUU GGAGGAAACUCCUUCAGGACAUCGUCGGG	CUGGAAA	36600
6666	4364	UAUGUUU G AUUCCCA	14866	UGGAAAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AACAGUA	36601
6675	4355	AUUUCCA G AAUACAG	14867	CGUAUUU GGAGGAAACUCCUUCAGGACAUCGUCGGG	UGGGAUU	36602
6683	4347	GAAUCAC G AAAGCAG	14868	GCUGUUU GGAGGAAACUCCUUCAGGACAUCGUCGGG	GUGAUUUC	36603
6698	4332	GCAACAU G AGCCCGC	14869	GCGGGCU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AUGUUUC	36604
6707	4323	AGCCCGC G AUAUGAU	14870	AUGACUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	GCGGGCU	36605
6717	4313	UAUGAUU G AUAUGGC	14871	GGCAUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AAUGACTA	36606
6718	4312	AGUCAU G AAUGGCA	14872	UGGCAUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	CAUAGACU	36607
6722	4308	AUUGGAU G GCCAUGA	14873	UCCAUGC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AUCCAAU	36608
6728	4302	AUGGCAU G GAGUCAU	14874	AUUGACU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AUGGCCAU	36609
6729	4301	UGGCAU G AGUCAU	14875	CAUAGAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	CAUGGCCA	36610
6758	4272	AGCCUCC G ACGAUGC	14876	GCCAUGU GGAGGAAACUCCUUCAGGACAUCGUCGGG	GGAGGCU	36611
6761	4269	CUCCGAC G AUGGCAA	14877	UUUGCAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	GUCGAGG	36612
6764	4266	CCAGCAU G GCAACAU	14878	AUGUUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AUCGUCG	36613
6775	4255	AAACAU G GCGACAG	14879	CUGCGGC GGAGGAAACUCCUUCAGGACAUCGUCGGG	UAAUGUU	36614
6779	4251	AUAGGCC G ACAGCUU	14880	ACAGUGU GGAGGAAACUCCUUCAGGACAUCGUCGGG	GGCCUAAU	36615
6803	4227	UCAGUUC G GGCAUCC	14881	GGAUGGC GGAGGAAACUCCUUCAGGACAUCGUCGGG	GCAACTUA	36616
6804	4226	CAGUUGG G GCCAUCC	14882	CGGAUGC GGAGGAAACUCCUUCAGGACAUCGUCGGG	CGCAACUG	36617
6820	4210	GCUUUC G GUUGGAU	14883	AUCCAAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	GUAAACGC	36618
6824	4206	UACGGU G GAUCACA	14884	UGUAUUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AACCGUAA	36619
6825	4205	UACGGU G GAUCACA	14885	AUGUAUC GGAGGAAACUCCUUCAGGACAUCGUCGGG	CAACCGUA	36620
6826	4204	ACGGUUG G AUCAUGG	14886	CAUGUAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	CCAACCGU	36621
6853	4177	AGAGCAA G GAUCAUG	14887	CCAUGAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	UUGCUGCU	36622
6854	4176	GCAGCAU G AUAUGGG	14888	CCAUGAU GGAGGAAACUCCUUCAGGACAUCGUCGGG	CUUGCTUC	36623
6860	4170	AGGAUAC G GGUUGAA	14889	UUAACCC GGAGGAAACUCCUUCAGGACAUCGUCGGG	AUGAUCCU	36624
6861	4169	GGAUAC G GGUUGAA	14890	UUUAAAC GGAGGAAACUCCUUCAGGACAUCGUCGGG	CAUGAUCC	36625
6862	4168	GAUACG G GUUGAAA	14891	UUUAAAC GGAGGAAACUCCUUCAGGACAUCGUCGGG	CCAUGAUC	36626
6866	4164	AUGGGU G AAAGUCC	14892	GGACUUU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AACCCAU	36627
6879	4151	GUCCUUG G AGCUAGA	14893	UUAAGCU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AACAGGAC	36628
6881	4149	CCUGUUA G GCUAGAG	14894	GCUTUAG GGAGGAAACUCCUUCAGGACAUCGUCGGG	UCAACAGG	36629
6886	4144	UGAGGCU G AGCCAAG	14895	GUUUGCU GGAGGAAACUCCUUCAGGACAUCGUCGGG	UAGCCUCA	36630
6901	4129	GCAUAGC G ACUUGUC	14896	GAGCAAGU GGAGGAAACUCCUUCAGGACAUCGUCGGG	UGCUAUGC	36631
6944	4086	UUUCCCU G AUAAGCU	14897	AGCUAGU GGAGGAAACUCCUUCAGGACAUCGUCGGG	AGGAGAA	36632

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6962	4068	CCUAUCC G ACCAUA	14898	UUGAUGG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGAAUAGG	36633
6994	4036	CACAUCA G AUUCRAG	14899	GCUGAAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGAUGUG	36634
7013	4017	CUCAGCC G GGUGUAG	14900	CUAACAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGGCUGAG	36635
7014	4016	UCAGCCG G GUGUAGC	14901	GCUAACAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGGGCUGA	36636
7024	4006	UGUAGCA G GCUAGCA	14902	UGCAGCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCUAACA	36637
7025	4005	GUUAGCAG G GCUAGCAG	14903	CUGUAGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUGCUAAC	36638
7035	3995	UAGCAGC G GAACAAC	14904	GUUGUUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCUGCUAG	36639
7036	3994	UAGCAGG G AACACCA	14905	UGGUGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGCUGCUA	36640
7050	3980	CCACGUU G AUGUCGU	14906	AACGCAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAACGUGG	36641
7061	3969	GUCGUUG G AAUGUUA	14907	AUAACAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACAACGAC	36642
7070	3960	AAUGUUAU G GCUCUCAG	14908	CUGAGAGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUAACAUU	36643
7101	3929	CGCCAGU G AAUUCAC	14909	GUUGAAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACUGGCGG	36644
7116	3914	ACACAUA G GGAUCUC	14910	GGAGUCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGAUGUGU	36645
7117	3913	CACAUCA G GAUCUCC	14911	GGGAGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUGAUGUG	36646
7118	3912	ACAUCAAG G AUCUCCCA	14912	UGGAGAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCUGAUGU	36647
7127	3903	AUCUCCA G AGCAGAAU	14913	AUUCUGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGGAGAU	36648
7132	3898	CCAGAGCA G AAUUGGC	14914	GCCAAAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCUCUGG	36649
7138	3892	CAGAAUU G GCGGCAU	14915	AUGCCGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAAUUCUG	36650
7141	3889	AAUUGGC G GGCAUCU	14916	ACGAUGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCCAAAUU	36651
7142	3888	AUUGGCG G GCAUCUG	14917	CACGAUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGCCAAAU	36652
7150	3880	GGCAUCU G AUAAGCA	14918	UGGCUAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGAUGCC	36653
7162	3868	AGCCAUU G AAAGAAA	14919	UUUUCUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAUUGGCU	36654
7166	3864	AUUUGAA G AAAACAGC	14920	GCUGUUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUUCAAAU	36655
7201	3829	GUUCUCU G GUUGUCC	14921	GGACCAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGAGAAC	36656
7205	3825	UCCUGUU G GUCCAUCU	14922	AGAUGGAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACCAAGG	36657
7220	3810	CUCGUUU G AGAACGA	14923	UCGUUUCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAAGCGAG	36658
7222	3808	CGCUUUA G AAACGAU	14924	CAUCGUUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCAAGGCG	36659
7227	3803	UGAGAAC G AUGCCACC	14925	GGUGGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GUUUCUCA	36660
7245	3785	UAAACACU G GUUGUAUC	14926	GAUACAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGUGUUUA	36661
7256	3774	UGUAUCU G AAGGUCC	14927	GCGACCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAUAACA	36662
7259	3771	AUCUUGAA G GUCCCAU	14928	AUGGCGAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUCAAGAU	36663
7268	3762	GUCGCCAU G AGCGCAA	14929	UUGGCGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGGCGAC	36664
7296	3734	CUCUCCC G AAUUAU	14930	AUCUAUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGGAGGAG	36665
7302	3728	CCGAAUA G AUUCUGG	14931	CGCAGAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UAAUUCGG	36666
7310	3720	GAUUCUG G AAAGCUG	14932	GCAGCUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCAGAUUC	36667
7328	3702	CCACCAA G AUGACAU	14933	UAUGUCAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUGUGGG	36668
7331	3699	ACCAAGU G ACAUAGC	14934	CGCUAUGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUCUUGGU	36669
7375	3655	AAACACCA G GACUAGCA	14935	UGCAGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGUGUUU	36670
7376	3654	AACACCA G ACUAGCAG	14936	CUGCUAGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUGGUGUU	36671
7384	3646	GACUAGCA G AGCAAUA	14937	UGAUUGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCUGAUC	36672

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7401	3629	GUAUAGCU G GCAUGCUG	14938	CAGCAUGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGCUAUAC	36673
7409	3621	GGCAUGCU G AUCUUGGC	14939	GCCAAGAU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGCAUGCC	36674
7415	3615	CUGAUCUU G GCUGUCCA	14940	UGGACAGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AAGAUCAG	36675
7432	3598	CCUCUUGC G AAGGACU	14941	AGGUCCUU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GCAAGAGG	36676
7435	3595	CUUGCGAA G GACCUCUU	14942	AGGAGGUC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUCGCAAG	36677
7436	3594	UUGCGAAG G ACCUCCUG	14943	CAGGAGGU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CUUCGCAA	36678
7444	3586	GACUCCU G GGUGGCCA	14944	UGGCCACC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGGAGGUC	36679
7445	3585	ACCUCUUG G GUGGCCAA	14945	UUGGCCAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CAGGAGGU	36680
7448	3582	UCCUGGU G GCCAAGAA	14946	UUCUUGGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACCCAGGA	36681
7454	3576	GUGGCCAA G AACACGAC	14947	GUCGUGUU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUGGCCAC	36682
7460	3570	AAGAACAC G ACCAGAAAG	14948	CUUCUGGU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GUGUUCUU	36683
7465	3565	CACGACCA G AAGGCCCA	14949	UGGGCCUU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGGUCGUG	36684
7468	3562	GACCAGAA G GCCCAACU	14950	AGUUGGGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUCUGGUC	36685
7477	3553	GCCCAACU G AAAAGGGU	14951	ACCCUUUU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGUUGGGC	36686
7482	3548	ACUGAANA G GGUCUAUC	14952	GAUUGACC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUUUCAGU	36687
7483	3547	UCGAAAAG G GUCAUCA	14953	UGAUUGAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CUUUUCAG	36688
7518	3512	UCACUUGU G ACUGCAGG	14954	CGUGCAGU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACAAGUGA	36689
7526	3504	GACUGCAC G AGGUGUU	14955	AAGACCCU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GUGCAGUC	36690
7528	3502	CUGCACGA G GGUCUUUU	14956	AAAAGACC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UCGUGCAG	36691
7529	3501	UGCACGAG G GUCUUUUC	14957	GAAAAGAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CUCGUGCA	36692
7551	3479	GUCUCUGU G GUCUGAUC	14958	GAUCAGAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACAGAGAC	36693
7556	3474	UGUGGUCU G AUCUCCAU	14959	AUGGAGAU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGACCACA	36694
7591	3439	GUCAGUUU G GUAGCGCA	14960	UGCGCUAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AAACUGAC	36695
7602	3428	AGCGCAGU G GUGGUAAG	14961	CUUACCAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACUGCGCU	36696
7605	3425	GCAGUGGU G GUAAGGUG	14962	CACCUUAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACCACUGC	36697
7610	3420	GGUGGUA G GUGCAGCU	14963	AGCUGCAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUAACCAC	36698
7658	3372	CUCUCUGU G GUGGUGCG	14964	CGCACAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACAGAGAG	36699
7661	3369	UCUGUGGU G GUGCGAGU	14965	ACUCGCAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACCACAGA	36700
7666	3364	GGUGGUGC G AGUGGCAG	14966	CUGCCACU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GCACCACC	36701
7670	3360	GUGCGAGU G GCAGGUCC	14967	GGACUUGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACUCGCAC	36702
7674	3356	GAGUGGCA G GUCCACGG	14968	CCGUGGAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGCCACUC	36703
7681	3349	AGGUCCAC G GUGUCCGC	14969	GCGGACAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GUGGACCU	36704
7702	3328	CUCACUCA G GGUGACCG	14970	CGGUCACC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGAGUGAG	36705
7703	3327	UCACUCAG G GUGACCGU	14971	ACGGUCAC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CUGAGUGA	36706
7706	3324	CUCAGGGU G ACCGUAGU	14972	ACTUACGU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACCUGAG	36707
7719	3311	UAGUUCU G GGCAGUAA	14973	UUACUGCC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGGAACUA	36708
7720	3310	AGUUCUG G GCAGUAAU	14974	AUUACUGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CAGGAACU	36709
7730	3300	CAGUAAUC G AAGUCRAU	14975	AUUGACUU GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GAUUAUCU	36710
7747	3283	CUCUACCC G GCCUUGU	14976	ACGAAGGC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GGUUAGAG	36711
7761	3269	CGUCCAU G GGCCUUGG	14977	CCAGGGCC GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AUGGGACG	36712

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7762	3268	GUCCAU G GCCUGGU	14978	ACCAGGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	CAUGGAC	36713
7768	3262	UGGCCU G GUUUGU	14979	CACAAAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGGCCCA	36714
7788	3242	UGUACCA G GUCUGGA	14980	UCGGAGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGGUAACA	36715
7795	3235	AGGUCU G AUUGAU	14981	AUCACAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	GGAGACCU	36716
7801	3229	CCGUAU G AUUGUUC	14982	GAAGCAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAAUCGG	36717
7812	3218	UGUUGU G GUCCGCC	14983	GGCGGAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACGAAGCA	36718
7826	3204	GCCAGU G ACUGUAU	14984	AUACCAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACACUGGC	36719
7830	3200	GUGGAC G GUUAUUC	14985	GAUAAUAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGUCACAC	36720
7852	3178	ACUCUAA G GAUCCAU	14986	AUGGAUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UUGAGAGU	36721
7853	3177	CUCUAG G AUUCCAU	14987	GAUGAAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CUUGAGAG	36722
7871	3159	CCCCAA G GUAUGGU	14988	ACGAUAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UUGUGGGG	36723
7884	3146	GCGUUA G GCCAGUA	14989	UACUGGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGAGACGC	36724
7896	3134	ACGUAC G AUUGACU	14990	AGUCAAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUGUACGU	36725
7901	3129	CADGAU G ACUACAC	14991	GGUGAGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAAUCAUG	36726
7912	3118	UUCACCA G AACUGCC	14992	GGCAGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGGUGGAA	36727
7943	3087	GUACAU G AGCUGCU	14993	AGAGGCU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAUGAUAC	36728
7964	3066	AUCAUA G GACAGGUC	14994	GACCUUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UAUUGGAU	36729
7965	3065	UCCAAU G ACAGGUCA	14995	UGACCUU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CUAUUGGA	36730
7969	3061	AUAGGA G GUCACUGU	14996	ACAGUAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGUCCUUA	36731
7978	3052	GUCACU G GAUGGCCA	14997	UGGCAUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAGUGAC	36732
7979	3051	UCACUG G AUGGCCAA	14998	UUGGCGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CACAGUGA	36733
7997	3033	UUGUUCU G ACAGCCGU	14999	ACGGCUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAGAACAA	36734
8012	3018	GUUCCAU G AUCUUGA	15000	UCGAAGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUUGGAAC	36735
8019	3011	UGAUUC G AGUCACAU	15001	AUGUACU	GGAGAAACUCCUUAAGGACAUCGUCGGG	GAAGAUA	36736
8048	2982	CUCUCU G ACCUUCAG	15002	CUGAAGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAGAGAG	36737
8056	2974	GACCUCA G GAACAUCC	15003	GGAUGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGAAGGUC	36738
8057	2973	ACCUUCG G AACAUCCG	15004	CGGAUGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CUGAAGGU	36739
8065	2965	GAACUCC G AGUCUGG	15005	CCAGCAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	GGAUGUUC	36740
8072	2958	CGAGUGU G GUGAGACC	15006	GGUCUAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGCACUCG	36741
8075	2955	GUGCUGU G AGACCAA	15007	UUUGGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACCAGCAC	36742
8077	2953	GUGGUGA G ACCAAUC	15008	GAUUGGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	UCACCAGC	36743
8119	2911	CCAGCG G AUUCUGAG	15009	CUCGAAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	GCGCUUGG	36744
8125	2905	GGAUUC G AGUGGAC	15010	GUCCACU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAAUCGC	36745
8130	2900	UCUGAGU G GACAUUC	15011	GGAUUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	GACUCAGA	36746
8131	2899	CUGAGUC G ACAUUCU	15012	AGGAUUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGACUCAG	36747
8141	2889	CAUCCUU G GUCUCCG	15013	CCGGAGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAGGAUUG	36748
8148	2882	UGGUCUC G GACCAUA	15014	UGAUGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	GGAGACCA	36749
8149	2881	GUCUCCG G ACCAUCA	15015	UUGAUGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGGAGACC	36750
8165	2865	ACCACAA G GUGUUGU	15016	AACAACAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UUUUGUGU	36751
8174	2856	GUGUUGU G GCGAGUUC	15017	GAACUCG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AACAACAC	36752

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8177	2853	UUGUUGC G AGUUCUGG	15018	CCAGAACU GGAGAAACUCCUUAAGGACAUCGUCGCGG	GCCAACAA	36753
8184	2846	CGAGUUCU G GUGCAAAU	15019	AUUUGCAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGAACTUG	36754
8210	2820	UUUCCCA G GCCUCCA	15020	UGAAAGGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UGGGGAAA	36755
8240	2790	UUUCCGU G GUGGCGGU	15021	ACGCCAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACGGAATA	36756
8243	2787	UCCGUGU G GCGUGAG	15022	CUCACGCG GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACCACGGA	36757
8246	2784	GUGGUGC G GUGAGGG	15023	CGCCUCAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GCCACCAC	36758
8249	2781	GUGGCGU G AGGCGUU	15024	AAACGCCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACCGCCAC	36759
8251	2779	GCGGUGA G GCGUUAG	15025	CUAAACGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCACCGCC	36760
8259	2771	GCGUUUA G GUGUGAC	15026	GUCAGCAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UAAACGCC	36761
8265	2765	UAGUGGU G ACUUGUAC	15027	GUACAAGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGCACCUA	36762
8297	2733	UCAACCA G ACACUAG	15028	CUUAGUGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	GUGGUUGA	36763
8305	2725	GACACUA G GUCCACAC	15029	GUGUGGAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UUAGUGUC	36764
8329	2701	CUUCAAA G AGUGUUA	15030	UGAACACU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UUUUGAAG	36765
8365	2665	CCACAUU G AUGUCUA	15031	UGGAGCAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AAUUGUGG	36766
8378	2652	UCCAGUCU G GAAACUGA	15032	UCAGUUUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGACUGGA	36767
8379	2651	CCAGUCU G AAACUGAU	15033	AUCAGUUU GGAGAAACUCCUUAAGGACAUCGUCGCGG	CAGACUGG	36768
8385	2645	UGAAACU G AUGGUAGA	15034	UCUACGAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGUUUCCA	36769
8392	2638	UGAUCUA G ACCGCACA	15035	UGUGCGGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UACGAUCA	36770
8413	2617	UUCCUUA G AGCUUUCU	15036	AGAAAGCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUAAGGAA	36771
8422	2608	AGCUUUCU G AAUGAUUC	15037	AGAUAUUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGAAAGCU	36772
8426	2604	UUCUGAU G AUUUGGC	15038	GCCAAGAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUUCAGAA	36773
8432	2598	AUGAUUCU G GCUAGGCC	15039	GGCCUAGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AAGAUCAU	36774
8437	2593	CUUGGCUA G GCCUUGUG	15040	CACAAGGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UAGCCAAAG	36775
8445	2585	GGCCUUGU G GCGUUUCA	15041	UGAAACGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACAAAGGC	36776
8454	2576	GCGUUUCA G GGUAAUAC	15042	GUUUUACC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UGAAACGC	36777
8455	2575	CGUUUCAG G GUAAUACU	15043	AGUUUAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CUGAAACG	36778
8470	2560	CUUUGACC G GUCCAUC	15044	GGAUGGAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GGUACAAG	36779
8501	2529	UUGUGUAU G AACACUCC	15045	GGAGUGUU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUACACAA	36780
8533	2497	CUCUUGCC G GCUGAUGU	15046	ACAUCAGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GGCAAGAG	36781
8537	2493	UGCCGGCU G AUGUCUAU	15047	AUAGACAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGCCGGCA	36782
8546	2484	AUGUCUAU G GCACACCC	15048	GGGUGUGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUAGACAU	36783
8576	2454	ACGUUCAC G GAGAGGAA	15049	UUCCUCUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GUGAACGU	36784
8577	2453	GCUUCACG G AGAGGAAG	15050	CUUCCUCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	CGUGAACG	36785
8579	2451	UUCACGGA G AGGAAGAG	15051	CUCUUCCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCCUGGAA	36786
8581	2449	CACGAGA G GAAGAGCA	15052	UGCUUUCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCUCCGUG	36787
8582	2448	ACGGAGAG G AAGAGCAG	15053	CUGCUUUU GGAGAAACUCCUUAAGGACAUCGUCGCGG	CUCUCGUG	36788
8585	2445	GAGAGGAA G AGCAGAAC	15054	GUUCUGCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UUCUCUCU	36789
8590	2440	GAAGAGCA G AACUCCUC	15055	GAGGAGUU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UGCUCUUC	36790
8606	2424	CCAACUCC G AGAAACGU	15056	ACGUUUUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GCAGUUGG	36791
8608	2422	AACUGGGA G AAACGUGA	15057	UCACGUUU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCGCAGUU	36792

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8615	2415	AGAAACGU G AGAGCUAU	15058	AUAGCUCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	ACGUUUCU	36793
8617	2413	AAACGUGA G AGCUAUGG	15059	CCAUAAGCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UCACGUUU	36794
8624	2406	AGAGCUAU G GACCUAUC	15060	GAUAGGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AUAGCUCU	36795
8625	2405	GAGCUAUG G ACCUAUCA	15061	UGAUAGGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CAUAGCUC	36796
8635	2395	CCUAUCAC G AGCAUUGA	15062	UCAAUGCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	GUGAUVAGG	36797
8642	2388	CGAGCAUU G AUGCCCAU	15063	UAGGCAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AAUGCUCG	36798
8659	2371	CCACRACA G GAGAGCCC	15064	GGGCUCUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UGUUGUGG	36799
8660	2370	CACACAG G AGAGCCCC	15065	GGGCUCUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CUGUUGUG	36800
8662	2368	CAACAGGA G AGCCCCCA	15066	UGGGGGCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UCCUGUUG	36801
8690	2340	GUUAUCCA G GACAUGCC	15067	GGCAUGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UGGAUAAAC	36802
8691	2339	UUAUCCAG G ACAUGCCU	15068	AGGCAUGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CUGGAUAA	36803
8702	2328	AUGCCUCC G AACAGUGA	15069	UCACUGUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	GGAGGCAU	36804
8709	2321	CGAACAGU G AGCGGAU	15070	AUUCGCGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	ACUGUUCG	36805
8713	2317	CAGUGAGC G GAAUGCUC	15071	GAGCAUUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	GCUCACUG	36806
8714	2316	AGUGAGCG G AAUGCUC	15072	GGAGCAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CGCUCACU	36807
8726	2304	GCUCUCC G AACACUUG	15073	CAAGUUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	GGAGGAGC	36808
8734	2296	GAACAUU G AUGGACAG	15074	CUGUCCAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AAGUGUUC	36809
8737	2293	CACUUGAU G GACAGCCU	15075	AGGCUGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AUCAAGUG	36810
8738	2292	ACUUGAU G ACAGCCUU	15076	AAGCGUGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CAUCAAGU	36811
8754	2276	UCCCAACU G AGEUGAAC	15077	GUUCACCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AGUUGGGA	36812
8756	2274	CCAACUGA G GUBAACAC	15078	GUGUUCAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UCAGUUGG	36813
8759	2271	ACUGAGGU G AACACCCC	15079	GGGGUGUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	ACCUCAGU	36814
8775	2255	CUCRACU G AUCCNAAG	15080	CUUUGGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AGUUGGAG	36815
8803	2227	GUCUCCUA G AGCGGCUA	15081	UAGCCGCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UAGGAGAGC	36816
8807	2223	CCUAGAGC G GCUAGUCU	15082	AGACUAGC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	GCUCUAGG	36817
8828	2202	GCUCUUU G AGGUGUGU	15083	ACCACCCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AAAGGAGC	36818
8830	2200	UCCUUUGA G GGUGGUGU	15084	CAACACC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UCAAGGGA	36819
8831	2199	CCUUUGAG G GUGGUUGU	15085	ACAACCAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CUCAAGG	36820
8834	2196	UUGAGGGU G GUUGUAAA	15086	UUUACAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	ACCCUCA	36821
8843	2187	GUUGUAAA G GCUUGGCC	15087	GGCAAGC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UUUACAAC	36822
8855	2165	UGCUUCCA G ACUUGUGC	15088	GCACAAGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UGGAAGCA	36823
8878	2152	GUGCCAAU G GUGAUUGA	15089	UCAUACAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AUUGGCAC	36824
8881	2149	CCAAUGGU G AUUGAUUC	15090	AGAUCAAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	ACCAUUGG	36825
8885	2145	UGGUGAUU G AUCUGUUG	15091	CAACAGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AAUACCCA	36826
8919	2111	CUAUGUAV G AGUCUCCA	15092	UGGAGACU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	AUACAUAG	36827
8930	2100	UCUCCAAA G GGUGGUUC	15093	GAACACC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UUUGGAGA	36828
8931	2099	CUCCAAAG G GUGGUUCC	15094	GGAACCAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CUUUGGAG	36829
8934	2096	CNAAGGGU G GUUCCAAU	15095	AUUGGAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	ACCCUUUG	36830
8950	2080	UUCAAUCA G GACCUUAG	15096	CUAAGGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	UGAUUGAA	36831
8951	2079	UCAUACAG G ACCUUAGC	15097	GCUAAGGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGGG	CUGAUUGA	36832

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8963	2067	UUAGCGUU G GCCGUGGC	15098	GCCACGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AACGCUAA	36833
8969	2061	UUGGCCGU G GCCACUGA	15099	UCAGUGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACGGCCAA	36834
8976	2054	UUGCCACU G AAACAATA	15100	UUUUGUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGUGGCCA	36835
8985	2045	AAACAAA G GGUUGACA	15101	UGUCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUUUGUUU	36836
8986	2044	AAACAAAG G GUUGACAG	15102	CUGUCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUUUUGUU	36837
8990	2040	AAAGGUVU G ACAGUGAC	15103	GUCACUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AACCCUUU	36838
8996	2034	UUGACAGU G ACCAAUCU	15104	AGAUUGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACUGUCA	36839
9012	2018	UGCCACACU G GCGUUGG	15105	CCUAACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGUGGGCA	36840
9019	2011	UGGCGUUA G GUCGUUCA	15106	UGAACGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UAACGCCA	36841
9030	2000	CGUCCAAU G AAGCCACU	15107	AGUGGCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AUUGAACG	36842
9039	1991	AAGCCACU G ACAGAUVA	15108	UAUCUCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGUGGCUU	36843
9042	1988	CCACUGAC G AGAUAGGA	15109	UCCUAUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GUCAGUGG	36844
9044	1986	ACUGACGA G AUAGGAC	15110	GUUCCUUA GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UCGUCAGU	36845
9048	1982	ACGAGAUVA G GAACUUUG	15111	CAAAGUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UAUCUCGU	36846
9049	1981	CGAGAUAG G AACUUUGC	15112	GCAAAGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUAUCUCG	36847
9060	1970	CUUUGCAA G GUCCAUC	15113	GGAUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUGCAAAG	36848
9106	1924	AGUGCCGU G ACCUGUGU	15114	ACACAGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACGGCACU	36849
9119	1911	GUUGUCGC G GGAGUCC	15115	GGGACUCC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GCAGACAC	36850
9120	1910	UGUCUGCG G GAGUCCCA	15116	UGGGACUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CGCAGACA	36851
9121	1909	GUCUGCG G AGUCCCAA	15117	UUGGGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CCGCAGAC	36852
9130	1900	AGUCCCAA G AAACUUGA	15118	UCAAGUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUGGGACU	36853
9137	1893	AGAAACUU G AAAGCCUU	15119	AAGGCUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGUUUCU	36854
9147	1883	AAGCCUUU G AACAGACG	15120	CGUCUGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAAGGCUU	36855
9152	1878	UUUGAACA G ACGCCAUVA	15121	UAUGGCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGUUCAAA	36856
9161	1869	ACGCCAUVA G GUUGUUC	15122	GGAACAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UAUGGCGU	36857
9211	1819	CUUCAAAU G ACCCGACG	15123	CGUCGGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AUUUGAAG	36858
9216	1814	AAUGACCC G ACGUCAAC	15124	GUUGACGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GGGUCAUU	36859
9227	1803	GUCRAACU G ACAGUGUU	15125	AACACUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGUUGAC	36860
9240	1790	UGUUGCUU G AAAAUUCC	15126	GGAUUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGCAACA	36861
9252	1778	AUUCACCA G GAAUGGCU	15127	AGCCAUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGUGGAAU	36862
9253	1777	UUCACACG G AAUGGCUU	15128	GAGCCAUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUGUGGAA	36863
9257	1773	ACAGAAU G GCUCACG	15129	GCUGGAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AUUCCUGU	36864
9274	1756	CAAAGCUU G AUGCAGAG	15130	CUCUGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGCUUUG	36865
9280	1750	UTGAUGCA G AGCUCUUU	15131	AGGGAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGCAUCA	36866
9294	1736	CCUCUUGU G AGCCCAAU	15132	AUUGGGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACAAGAGG	36867
9312	1718	CUAUCACA G ACUGCUUC	15133	GAAGCAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGUGAUAG	36868
9323	1707	UGUUCUGU G GCGUGUGG	15134	CCACAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACGAAGCA	36869
9330	1700	UGGCGUGU G GUUCCUCA	15135	UGAGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACACGCCA	36870
9393	1637	UGCUCCAA G GGAGGUG	15136	CAACUCC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUGGAGCA	36871
9394	1636	GUCCAAG G GAGGUUGA	15137	UCAACCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUUGGAGC	36872

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9395	1635	CUCAAGG G AGGUUGAG	15138	CUCAACCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36873
9397	1633	CCAGGGA G GUUGAGGU	15139	ACCUCAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36874
9401	1629	GGAGGUU G AGGUCCAU	15140	AUGGACCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36875
9403	1627	GAGGUUA G GUCCAUA	15141	UCAUGGAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36876
9410	1620	AGGUCCAU G AACACUC	15142	GAGUGGUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36877
9421	1609	CCACUCAC G AUGGACCA	15143	UGGUCCAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36878
9424	1606	CUACAGU G ACCAAGA	15144	UCUUGUUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36879
9425	1605	UCAGAGU G ACCAAGA	15145	UUUUGGUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36880
9431	1599	UGACCAA G AACGUCU	15146	AAGACGUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36881
9470	1560	UAGCAUU G GUGUCAAU	15147	AUUGACAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36882
9483	1547	CAUCCCU G ACCUGGU	15148	ACCACGUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36883
9489	1541	CUGACGU G GUUCACAG	15149	CUGUGAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36884
9540	1490	GUGUGAU G AAGGCGC	15150	GGCGCTUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36885
9543	1487	UGUAUGA G GCGCCGA	15151	UGCGGCGC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36886
9552	1478	GCGCCGA G GAGUGAU	15152	CAUCACUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36887
9553	1477	CGCGCAG G AGUGAUC	15153	GCAUCACU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36888
9557	1473	GCAGGAGU G AUGUGUA	15154	UUUCAGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36889
9563	1467	GUGAUCU G AUCUCCC	15155	GGGAGAUU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36890
9577	1453	CCUGCCU G AGUGGCUC	15156	GAGCCACU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36891
9581	1449	GCUGAGU G GCUCCAAC	15157	GUUGGAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36892
9596	1434	ACUGUGU G GAGUAGU	15158	AACUACUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36893
9597	1433	CCUGUGU G AGUAGUU	15159	AAACUACU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36894
9612	1418	UUCGUGC G ACUCCACA	15160	UGUGGAGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36895
9627	1403	CAGUAGU G GUCCAUG	15161	CCAUGGAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36896
9634	1396	UGGUCCAU G GACAAAA	15162	UUUUUGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36897
9635	1395	GUCCAU G AAAAAU	15163	AUUUUUGU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36898
9644	1386	ACAAAAU G GCCACUUC	15164	GAAGUGGC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36899
9659	1371	UCGUACU G AUUUCUC	15165	GAGAAUUA GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36900
9674	1356	UCUUCAA G AUGGUUCU	15166	AGAACCAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36901
9677	1353	UUCAAGU G GUUCUUC	15167	GGAAGAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36902
9695	1335	AUUGCCU G GUAGAGCA	15168	UGCUUAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36903
9699	1331	CUUGGUA G AGCAGGCA	15169	UGCCUGCU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36904
9704	1326	GUAGAGCA G GCAAUUU	15170	AAAUUUGC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36905
9713	1317	GCAAUUU G GCGAUGU	15171	ACAUGGC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36906
9801	1229	CAAAAGU G GGUAGCA	15172	UGUGACC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36907
9802	1228	AAAGCUG G GUCGAC	15173	GUGUGAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36908
9823	1207	GUCAUGU G AGCUUCU	15174	GAGAAAU GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36909
9836	1194	UCUCCAU G GUCCGGCA	15175	UGCCGAC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36910
9840	1190	CAUGGUC G GGCAGCA	15176	UGCGGCC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36911
9841	1189	CAUGGUC G GCACGAC	15177	CUGCGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCUCCGG	36912

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9854	1176	GCAGCUU G GUGGAGAG	15178	CUCUCCAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AAAGCUGC	36913
9857	1173	GCUUUGG G GAGAGUIC	15179	GAUCUCUC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	ACCAAAGC	36914
9858	1172	CUUUGG G GAGAGUIC	15180	CGAUCUCU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	CACCAAAG	36915
9860	1170	UUGGUGG G AGAUGCU	15181	AGCAUCU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UCCACCAA	36916
9862	1168	GUUGGAG G AUGGUGA	15182	UCGAGCU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UCUCCACC	36917
9869	1161	AGAUCGU G ACGUAGC	15183	GCUACCGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AGCGAUUC	36918
9872	1158	UGGUGG G ACGUAGC	15184	UUGCUUAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GUCAGCGA	36919
9895	1135	AUACUGG G GACCUUG	15185	CAGAGGUC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GCAGUUAU	36920
9896	1134	UAACUGG G ACCUCUG	15186	GCAGAGGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	CGCAGUUA	36921
9907	1123	CUCUGCA G GUUGACG	15187	CGGUAAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UGGCAGAG	36922
9911	1119	GCCAGGU G ACCGCCUC	15188	GAGCGGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AACCUGGC	36923
9941	1089	UUCACAU G AUGGUAG	15189	CCUACCAU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GAUGUGAA	36924
9944	1086	ACAUCGU G GUAGGUU	15190	AAGCUAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AUCGAUGU	36925
9948	1082	GAUGGUA G GCUUGUC	15191	GGACAAG	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UACCAUCG	36926
9960	1070	UGUCCUA G ACAUGUA	15192	UAUCAUGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UAGGACA	36927
9965	1065	UUGACAU G AUAGUCAC	15193	GUGACU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AUGUCUAA	36928
9989	1041	UGGCUUC G AGAACCA	15194	UUGGUUCU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GAAGGCGA	36929
9991	1039	GCUUGCA G AACCAAU	15195	AUUUGGUU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UCGAAAGC	36930
10017	1013	UUGCUCA G ACACUCU	15196	AGGAGUGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UGGAGCAA	36931
10031	999	CCUUCAA G AAGUCUCU	15197	AGAGACU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UUGGAAGG	36932
10054	976	CAUUCNA G GCAGUUA	15198	UCAACUCG	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UUGGAUG	36933
10061	969	AGGAGU G AAGUGUA	15199	UACAGUCU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AACUGCCU	36934
10074	956	UGUAGGU G GGGCCAC	15200	GGUGGCC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AGCUUACA	36935
10075	955	GUAGGUG G GGCACCA	15201	UUGUGGCC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	CAGCUUAC	36936
10076	954	UAAGGUG G GCCACCA	15202	UUGUGGCC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	CCAGCUUA	36937
10097	933	AAUAGC G ACAGGUG	15203	GUGUUGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GUGCUUUA	36938
10118	912	CUCUGAU G GUGUGCU	15204	AGCAACAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AUGCAGAG	36939
10145	885	CAACCAU G ACAGGUG	15205	GCAGCCGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AUUGGUUG	36940
10148	882	CCAUGAC G GCGCCAC	15206	GUGGCAGC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GUCAUUGG	36941
10159	871	UGCCACCA G GCAUAUC	15207	GAUAUGC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UGGUGGCA	36942
10160	870	GCCACCA G GCAUAUC	15208	GGAUAUGC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	CUGGUGGC	36943
10170	860	CAUAUCCA G GGUUCCUC	15209	GAGGAACC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UGGAUAUG	36944
10171	859	AUAUCCAG G GUUCCUCA	15210	UGAGGAAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	CUGGAUAU	36945
10181	849	UUCUCCA G AUCAUGA	15211	UCAUGGAU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UUGAGGAA	36946
10188	842	AGAUCU G AUUCUGU	15212	AACAGAAU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AUGGAUCU	36947
10214	816	UACCUUGU G GCUUGGU	15213	ACCAAGGC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	ACAAGGUA	36948
10220	810	GUGGCCU G GUGUGUC	15214	GACAGCAC	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	AAGGCCAC	36949
10255	775	GUGGCUA G AGUGCUU	15215	AAAGCACU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	UAGCGAAC	36950
10287	743	GUGUGCU G ACCUCCGA	15216	UCGGAGGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	ACUGACAG	36951
10294	736	UGACCUCC G ACUGGUC	15217	GACGCAGU	GGAGGAAACUCCUUCUAGGACAUCGUCCGG	GGAGGDUCA	36952

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10305	725	UGGUCUU G AGUGCGU	15218	ACGCCACU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAGACGCA	36953
10309	721	UCUUGAGU G GCGUGUCU	15219	AGACACGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACUCAAGA	36954
10319	711	CGUGUCUU G GUGCAUCU	15220	AGAUGCAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAGACACG	36955
10337	693	CCAUAACU G ACGUAGAC	15221	GUCUACGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGGUAUGG	36956
10343	687	CUGACGUA G ACUGCUGA	15222	UCAGCAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UACGUCAG	36957
10350	680	AGACGUCU G ACUUUGUG	15223	CACAAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGCAGUCU	36958
10370	660	CACACACU G AUGUCUUC	15224	GAAGACAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GACUGUUG	36959
10380	650	UGUCUUCU G GAUCAUUA	15225	UAAUGAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGAAGACA	36960
10381	649	GUCUUCUG G AUCAUUAC	15226	GUAAUGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAGAAAGC	36961
10395	635	UACCAGCC G ACAGCACU	15227	AGUGCUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGCUGGUA	36962
10404	626	ACAGCACU G GGCAUUA	15228	UGAAUGCC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGUGCUGU	36963
10405	625	CAGCACUG G GCAUUCAU	15229	AUGRAUGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAGUGCUG	36964
10418	612	UCAUAAGU G AUAGUAUC	15230	GAUACTAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACUUAUGA	36965
10457	573	AUUGCUCU G ACAUUGCA	15231	UGCAUUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGAGCAAU	36966
10468	562	AAUGCAUA G GUUCUUUC	15232	GAAGAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UAUGCAUU	36967
10488	542	CAGCUGUU G GAUUCUGU	15233	CACGAUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AACAGCUG	36968
10489	541	AGCUGUDG G AAUCGUGA	15234	UCACGAUU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAACAGCU	36969
10496	534	GGAAUCGU G AUGACAUC	15235	GAUGUCAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACGAUUC	36970
10499	531	AUGGUGAU G ACAUCUGU	15236	ACAGAUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUCACGAU	36971
10508	522	ACAUCUGU G ACGUCAGU	15237	ACUGACGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACAGAUGU	36972
10546	484	CUUCCCUU G GAAGUUG	15238	CUAACTUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAGGGAAG	36973
10547	483	UUCCCUUG G AAGUUAUA	15239	UCUAACTU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAAGGGA	36974
10554	476	GGAAGUUA G AGAGGGUA	15240	UACCCUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UAACUUC	36975
10556	474	AAGUUAUA G AGGUAAC	15241	GUUACCCU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UCUAACTU	36976
10558	472	GUUAGAGA G GUUAACUG	15242	CAGUUAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UCUCUAA	36977
10559	471	UUAGAGAG G GUAAUCUG	15243	GCAGUUAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CUCUCUAA	36978
10577	453	CUUACGCU G GCGAUCAG	15244	CUGAUCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGCGUAGG	36979
10580	450	ACGUGGC G AUCAGGCC	15245	GGCUGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GCCAGCGU	36980
10585	445	GGGUAUA G GCCAAUUA	15246	UGAUUUGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGAUCGCC	36981
10595	435	CCAAUUAU G ACUGCAAU	15247	AUUGCAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGAUUGG	36982
10607	423	GCAAUUCC G GUCUUUCC	15248	GGAAAGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGAAUUGC	36983
10635	395	UUUUGUUU G AGCUCGCG	15249	GGCAGACU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAAAACAA	36984
10645	385	GCUCGCGC G AUUGAUAG	15250	CUUAUCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGCGGAGC	36985
10649	381	CGCCGAU G AUAGCAU	15251	AGUCUAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAUCGGCG	36986
10658	372	AUAGCACU G GUCAAGGU	15252	ACCUUGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGUGCUAU	36987
10664	366	CUGGUCAA G GUCCCUAG	15253	CUAGGGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UUGACCCAG	36988
10690	340	AAACUUA G AAGGUGUU	15254	AACACCUU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGAGUUUU	36989
10693	337	ACUCAGAA G GUGUUUCA	15255	UGAAACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UUUCAGAU	36990
10732	298	UCUCCAU G AUCCAGCA	15256	UGCUGGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GAUGGAGA	36991
10747	283	CACUGCUC G GUCGCGAG	15257	CUCCGACC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GAGCAGUG	36992

Table XII

10748	282	ACUGCUCG G GUCGGAGC	15258	GCUCGGAC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	CGAGCAGU	36993
10752	278	CUCGGGUC G GAGCAAUU	15259	AAUUGCUC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GACCCGAG	36994
10753	277	UCGGGUCG G AGCAAUUG	15260	CAAUUGCU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	CGACCCGA	36995
10766	264	AUUGCUGU G AACUGAA	15261	UUCAGGUU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	ACAGCAAU	36996
10772	258	GUGAACCU G AAGAAGC	15262	GCGUUCUU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	AGGUUCAC	36997
10775	255	AACGCGAA G AACGCCAA	15263	UUGCGUU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UUCAGGUU	36998
10784	246	ACGCCAA G AGAGCCAA	15264	UUGCUCU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UUGCGUUU	36999
10786	244	CGCCAGA G AGCCAACA	15265	UGUUGCU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UCUUGGCG	37000
10806	224	AUCGUUU G GCCCUUG	15266	CAAGGGC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	AAUACGAU	37001
10820	210	UUGCCGUC G AUCAGGUU	15267	AGCCUGAU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GACGGCAA	37002
10825	205	GUCGAUCA G GCUCAACA	15268	UGUUGAGC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UGAUCGAC	37003
10856	174	CCAAUCAA G GACAACAC	15269	GUGUUGUC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UUGAUUGG	37004
10857	173	CAAUCAAG G ACAACACG	15270	CGUUGUUG GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	CUUGAUUG	37005
10867	163	CAACACGC G GGGCAUUC	15271	GAAUGCC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GCGUGUUG	37006
10868	162	AACACGCG G GCAUUC	15272	GGAUUGCC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GCGUGUUU	37007
10869	161	ACACGCG G GCAUUCG	15273	CGGAUUGC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	CCGCGUUU	37008
10892	138	AGCAUAUU G ACAGCCCG	15274	CGGGCUGU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	AAUUGCUU	37009
10900	130	GACAGCC G GCUUUGC	15275	GCAAGAGC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GGGCUGUC	37010
10910	120	CUCUUGCC G GGCCUCC	15276	GGAGGGCC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GGCAAGAG	37011
10911	119	UCUUGCCG G GCCUCCU	15277	AGGAGGGC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	CGGCAAGA	37012
10920	110	GCCUCCU G GUUUCUA	15278	UAAGAAAC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	AGGAGGGC	37013
10929	101	GUUUCUA G ACAUCGAG	15279	CUCGAUGU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UAAGAAAC	37014
10935	95	UAGACAUC G AGAUCUUC	15280	GAAGAUCU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	GAUGUCUA	37015
10937	93	GACAUCGA G AUCUUCGU	15281	ACGAAGAU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UCGAUGUC	37016
10951	79	CGUGCUAA G AAACAGCU	15282	AGCUGUUU GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UUAGCACG	37017
11019	11	CUCACACA G GCGAUA	15283	UAGUUGC GGAGGAAACUCCCUUUAAGGACAUCGUCGGG	UGUGUGAG	37018

Input Sequence = AF196835_rc. Cut Site = G/.

Arm Length = 8. Core Sequence = GGAGGAAACUCCCUUUAAGGACAUCGUCGGG

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XIII

Table XIII: WNV Enzymatic Nucleic Acid and Target Sequence

P s	Substrate	Seq ID	Alias	Enzymatic Nucleic Acid	RPI #	S q ID
698	GUCAGGU A UGGAGA	15284	WNV-698 Rz-7 Ome stab1	ucuuca CUGAUGAggcccguuagccGAA Accugac B	23047	37019
3021	AGAUCAU U GGAACGG	15285	WNV-3021 Rz-7 Ome stab1	ccguucc CUGAUGAggcccguuagccGAA Augaucu B	23048	37020
4082	GGCAGCU U GAUCAGG	15286	WNV-4082 Rz-7 Ome stab1	ccugauc CUGAUGAggcccguuagccGAA Agcugcc B	23049	37021
7400	CCAGAAU U AGAGCGC	15287	WNV-7400 Rz-7 Ome stab1	gcgcucu CUGAUGAggcccguuagccGAA Auucugg B	23050	37022
9915	CUCGCAU A UCUCAG	15288	WNV-9915 Rz-7 Ome stab1	cuggaga CUGAUGAggcccguuagccGAA Augcgag B	23051	37023
256	GGCGUUC U UCAGGUU	15289	WNV-256 CHz-7 Ome stab1	aaccuga CUGAUGAggcccguuagccGAA Iaagcc B	23052	37024
1488	CGCGGCC U UCAUACA	15290	WNV-1488 CHz-7 Ome stab1	uguauga CUGAUGAggcccguuagccGAA Igcgccg B	23053	37025
6802	GCUCUCC C UUCUCUU	15291	WNV-6802 CHz-7 Ome stab1	aagagaa CUGAUGAggcccguuagccGAA Igagagc B	23054	37026
7344	CAGCGGC C GGAUCA	15292	WNV-7344 CHz-7 Ome stab1	ugauucc CUGAUGAggcccguuagccGAA Iccgcug B	23055	37027
9733	GUCCAC U UCCUCA	15293	WNV-9733 CHz-7 Ome stab1	uugagga CUGAUGAggcccguuagccGAA Iuggagc B	23056	37028
1491	CGCCUUC A UACACAC	15294	WNV-1491 Dz-7 stab3	gugugua GGCCTAGCTACAACGA gaagccg B	23057	37029
1562	GACACCA A UGCAUAC	15295	WNV-1562 Dz-7 stab3	guaugca GGCCTAGCTACAACGA ugguguc B	23058	37030
3089	AGGCUCA A UGAUACG	15296	WNV-3089 Dz-7 stab3	cguauca GGCCTAGCTACAACGA ugagccu B	23059	37031
5582	ACUUCAG A UCCAUUC	15297	WNV-5582 Dz-7 stab3	gaaugga GGCCTAGCTACAACGA cugaagu B	23060	37032
6823	UGUGCUA A UUCUGA	15298	WNV-6823 Dz-7 stab3	ucaggaa GGCCTAGCTACAACGA uagcaca B	23061	37033
415	AAGAGGA G GAAAGAC	15299	WNV-415 Amb.Rz-7 stab3	gucuuuc GgaggaacacucC CUUCaaggacacucgucCGGG uccucuu B	23062	37034
2552	GAGGCUU G GAUGGAC	15300	WNV-2552 Amb.Rz-7 stab3	guccauc GgaggaacacucC CUUCaaggacacucgucCGGG aagccuc B	23063	37035
4097	GAGAAGA G GAGUGCA	15301	WNV-4097 Amb.Rz-7 stab3	ugcauc GgaggaacacucC CUUCaaggacacucgucCGGG ucuucuc B	23064	37036
4186	UGCUGCU G GACUGAU	15302	WNV-4186 Amb.Rz-7 stab3	aucaguc GgaggaacacucC CUUCaaggacacucgucCGGG agcagca B	23065	37037
6577	GAAAGGA G GAAGAGC	15303	WNV-6577 Amb.Rz-7 stab3	gcucuc GgaggaacacucC CUUCaaggacacucgucCGGG uccuuuc B	23066	37038
2680	GGAAGCA G UGAAGGA	15304	WNV-2680 Zin.Rz-7 amino stab4	uccuuca gccgaaaggCgagugaGGuCu ugcuucc B	23067	37039
3432	CACCACU G CGCUACC	15305	WNV-3432 Zin.Rz-7 amino stab4	gguaagc gccgaaaggCgagugaGGuCu aguggug B	23068	37040
4044	UGGAUJU G UACAGGA	15306	WNV-4044 Zin.Rz-7 amino stab4	uccuuga gccgaaaggCgagugaGGuCu acaucca B	23069	37041
6864	ACAACCA G CUAGCCG	15307	WNV-6864 Zin.Rz-7 amino stab4	cgguuag gccgaaaggCgagugaGGuCu ugguugu B	23070	37042
8962	AGAAGCA G UGAAGA	15308	WNV-8962 Zin.Rz-7 amino stab4	ucuucaa gccgaaaggCgagugaGGuCuugcuucu B	23071	37043

Table XIII

Input Sequence = AF196835. Cut Site = UH/.
Arm Length = 8. Core Sequence = CUGAUGAG CCCGUUGGC CGAA
AF196835 West Nile virus strain NY99-flamingo382-99,
complete genome
lower case = 2'-O-methyl
UPPER CASE = RIBO
BOLD = 2'-amino
B = inverted deoxy abasic
ITALIC = 2'-deoxy

Table XIV

Table XIV: In vitro cleavage data

RPI #	Site/Motif	Enzymatic Nucleic Acid Sequence	Seq ID No.	% cleaved	Substrate	Seq ID N.
23047	WNV-698 Rz-7 Ome stab1	ucumcca CUGAUGAGGCCGUAAGGCCGAA Accugac B	37019	89.68	GUCAGGU A UGGAAGA B	37056
23048	WNV-3021 Rz-7 Ome stab1	ccguucc CUGAUGAGGCCGUAAGGCCGAA Augaucu B	37020	93.10	AGAUCAU U GGAACGG B	37057
23049	WNV-4082 Rz-7 Ome stab1	ccugauc CUGAUGAGGCCGUAAGGCCGAA Agcugcc B	37021	89.54	GGCAGCU U GAUCAGG B	37058
23050	WNV-7400 Rz-7 Ome stab1	gcgcucu CUGAUGAGGCCGUAAGGCCGAA Auucugg B	37022	94.82	CCAGAAU U AGAGCGC B	37059
23051	WNV-9915 Rz-7 Ome stab1	cuggaga CUGAUGAGGCCGUAAGGCCGAA Augcgag B	37023	90.92	CUCGCAU A UCUCAG B	37060
23052	WNV-256 CHz-7 Ome stab1	aaccuga CUGAUGAGGCCGUAAGGCCGAA Iaagccc B	37024	90.06	GGCGUUC U UCAGGUU B	37061
23053	WNV-1488 CHz-7 Ome stab1	uguauga CUGAUGAGGCCGUAAGGCCGAA Igccgcc B	37025	76.12	CGGCGCC U UCAUACA B	37062
23054	WNV-6802 CHz-7 Ome stab1	aagagaa CUGAUGAGGCCGUAAGGCCGAA Igagagc B	37026	88.59	GUUCUCC C UUCUCUU B	37063
23055	WNV-7344 CHz-7 Ome stab1	ugaaucc CUGAUGAGGCCGUAAGGCCGAA Iccgcug B	37027	91.26	CAGCGGC C GGAUACA B	37064
23056	WNV-9733 CHz-7 Ome stab1	uugagga CUGAUGAGGCCGUAAGGCCGAA Iuggagc B	37028	78.91	GUCCAC U UCCUCAA B	37065
23057	WNV-1491 Dz-7 stab3	gugugua GGCTAGCTACAACGA gaaggcg B	37029	72.13	CGCCUUC A UACACAC B	37066
23058	WNV-1562 Dz-7 stab3	guaugca GGCTAGCTACAACGA ugguguc B	37030	86.07	GACACCA A UGCAUAC B	37067
23059	WNV-3089 Dz-7 stab3	cguauca GGCTAGCTACAACGA ugagccu B	37031	87.00	AGGCUCA A UGAUACG B	37068
23060	WNV-5582 Dz-7 stab3	gaaugga GGCTAGCTACAACGA cugaagu B	37032	39.77	ACUUCAG A UCCAUUC B	37069
23061	WNV-6823 Dz-7 stab3	ucaggaa GGCTAGCTACAACGA uagcaca B	37033	89.13	UGUGCUA A UUCUGA B	37070
23062	WNV-415 Amb.Rz-7 stab3	gucuuuc GgaggaacucC CUCaaggacaucgucCGGG uccuucu B	37034	24.90	AAGAGGA G GAAAGAC B	37071
23063	WNV-2552 Amb.Rz-7 stab3	guccauc GgaggaacucC CUCaaggacaucgucCGGG aagccuc B	37035	53.89	GAGGCUU G GAUGGAC B	37072

Table XIV
400.03

23064	WNV-4097 Amb.Rz-7 stab3	ugcacuc GgaggaacucC CUUCaaggacaucgucGGG	37036	11.57	GAGAAGA G GAGUGCA B	37073
23065	WNV-4186 Amb.Rz-7 stab3	aucaguc GgaggaacucC CUUCaaggacaucgucGGG	37037	49.54	UGCUGCU G GACUGAU B	37074
23066	WNV-6577 Amb.Rz-7 stab3	gcucuc GgaggaacucC CUUCaaggacaucgucGGG	37038	27.23	GAAAGGA G GAAGAGC B	37075
23067	WNV-2680 Zin.Rz-7 amino stab4	uccuuuc B	37039			37076
23068	WNV-3432 Zin.Rz-7 amino stab4	uccuuca gccgaaaggGgagugaGGuCu ugcuucc B	37040	5.20	GGAAAGCA G UGAAGGA B	37077
23069	WNV-4044 Zin.Rz-7 amino stab4	gguaagcg gccgaaaggGgagugaGGuCu aguggug B	37041	85.91	CACCACU G CGCUACC B	37078
23070	WNV-6864 Zin.Rz-7 amino stab4	uccugua gccgaaaggGgagugaGGuCu acaucca B	37042	80.75	UGGAUGU G UACAGGA B	37079
23071	WNV-8962 Zin.Rz-7 amino stab4	cggcuag gccgaaaggGgagugaGGuCu ugguugu B	37043	16.02	ACAACCA G CUAGCCG B	37080
		uccuuca gccgaaaggGgagugaGGuCu ugcuuuc B		4.93	AGAAGCA G UGAAGA B	

UPPER CASE = RIBO

Lower case = 2'-O-methyl

Bold = 2'-deoxy-2'-amino

ITALIC = 2'-deoxy

B = inverted deoxybasic

I = Inosine

CLAIMS

1. A nucleic acid molecule that modulates replication of West Nile Virus (WNV).
- 5 2. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is selected from the group consisting of enzymatic nucleic acid, antisense nucleic acid, 2',5'-A nucleic acid, triplex forming nucleic acid, and decoy nucleic acid molecules.
- 10 3. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is effective to treat a condition related to WNV infection, wherein said condition is selected from the group consisting of pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, and cirrhosis.
- 15 4. The nucleic acid molecule of claim 3, wherein said nucleic acid molecule is used in conjunction with one or more other therapies for the treatment of said condition.
5. The nucleic acid molecule of claim 4, wherein said other therapy is selected from the group consisting of antivirals and interferons.
- 20 6. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is chemically synthesized.
7. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises at least one 2'-sugar modification.
8. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises at least one nucleic acid base modification.
- 25 9. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises at least one phosphate backbone modification.
10. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises at least one 2'-sugar modification and at least one phosphate backbone modification.

11. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises a cap structure, wherein the cap structure is at the 5'-end or 3'-end, or both the 5'-end and the 3'-end.
- 5 12. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises between 12 and 100 bases complementary to a RNA molecule of WNV.
13. The nucleic acid of any of claim 1, wherein said nucleic acid molecule comprises between 14 and 24 bases complementary to a RNA molecule of WNV.
- 10 14. A method of down regulating the replication of WNV in a cell, comprising the step of contacting said cell with the nucleic acid molecule of claim 1, under conditions suitable for said down regulation of WNV replication.
- 15 15. A method of down regulating the replication of WNV in a mammal comprising the step of administering the nucleic acid molecule of claim 1 to the mammal, under conditions suitable for said down regulation of WNV replication.
16. A method of reducing WNV activity in a cell, comprising the step of contacting said cell with the nucleic acid molecule of claim 1, under conditions suitable for said reduction of WNV activity.
- 20 17. A method of treating a patient having a condition associated with the level of WNV comprising the step of contacting cells of said patient with the nucleic acid molecule of claim 1, under conditions suitable for said treatment.
18. The method of claim 15 further comprising the use of one or more other therapies under conditions suitable for said treatment.
- 25 19. The method of claim 18, wherein said other therapy is selected from the group consisting of antivirals and interferon.
20. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves RNA derived from WNV.
- 30 21. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves plus strand RNA derived from WNV.

22. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves minus strand RNA derived from WNV.
23. The enzymatic nucleic acid of claim 2 having at least one binding arm wherein the binding arm of said enzymatic nucleic acid molecule comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-15,308
24. The enzymatic nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule comprises any of the sequences of SEQ ID NOs 15,309-37,043.
25. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule inhibits the activity of RNA derived from WNV.
26. The antisense nucleic acid molecule of claim 25, wherein said antisense nucleic acid molecule inhibits the activity of plus strand RNA derived from WNV.
27. The nucleic acid molecule of claim 25, wherein said antisense nucleic acid molecule inhibits the activity of minus strand RNA derived from WNV.
28. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-15,308.
29. An enzymatic nucleic acid molecule that cleaves RNA derived from the WNV.
30. The enzymatic nucleic acid molecule of claim 2 or claim 29, wherein said enzymatic nucleic acid molecule is selected from the group consisting of Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme.
31. The enzymatic nucleic acid molecule of claim 2 or claim 29, wherein said enzymatic nucleic acid molecule is in a hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, or RNase P nucleic acid motif.
32. The enzymatic nucleic acid molecule of claim 30, wherein said Hammerhead motif comprises a sequence complementary to any of the substrate sequences in Tables III and VIII.

33. The enzymatic nucleic acid molecule of claim 30, wherein said Inozyme motif comprises a sequence complementary to any of the substrate sequences in Tables IV and IX.
- 5 34. The enzymatic nucleic acid molecule of claim 30, wherein said DNAzyme comprises a sequence complementary to any of the substrate sequences in Tables VI and XI.
35. The enzymatic nucleic acid molecule of claim 30, wherein said Zinzyme comprises a sequence complementary to any of the substrate sequences in Tables V and X.
- 10 36. The enzymatic nucleic acid molecule of claim 30, wherein said Amberzyme comprises sequences complementary to any substrate sequences in Tables VII and XII.
- 15 37. The enzymatic nucleic acid molecule of claim 30, wherein said Hammerhead comprises at least five ribose residues, at least ten 2'-O-methyl modifications, and a 3'- end modification.
38. The enzymatic nucleic acid molecule of claim 37, wherein said Hammerhead further comprises phosphorothioate linkages on at least three of the 5' terminal nucleotides.
- 20 39. The enzymatic nucleic acid molecule of claim 37, wherein said 3'- end modification is a 3'-3' inverted abasic moiety.
40. The enzymatic nucleic acid molecule of claim 30, wherein said Inozyme comprises at least five ribose residues, at least ten 2'-O-methyl modifications, and a 3'- end modification.
- 25 41. The nucleic acid molecule of claim 40, wherein said Inozyme further comprises phosphorothioate linkages on at least three of the 5' terminal nucleotides.
42. The nucleic acid molecule of claim 40, wherein said a 3'- end modification is 3'-3' inverted abasic moiety.
- 30 43. The enzymatic nucleic acid molecule of claim 30, wherein said DNAzyme comprises at least ten 2'-O-methyl modifications.

44. The enzymatic nucleic acid molecule of claim 43, wherein said DNAzyme further comprises phosphorothioate linkages on at least one of the 5' terminal nucleotides.
- 5 45. The enzymatic nucleic acid molecule of claim 44, wherein said DNAzyme further comprises a 3'-end modification.
46. The enzymatic nucleic acid molecule of claim 45, wherein said 3'- end modification is a 3'-3' inverted abasic moiety.
47. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises at least ten 2'-O-methyl modifications.
- 10 48. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a region that is an RNase H activating region.
49. The nucleic acid molecule of claim 48, wherein said RNase H activating region comprises a region having at least five deoxyribonucleotides.
- 15 50. The nucleic acid molecule of claim 49, wherein said RNase H activating region further comprises one or more phosphate backbone modification.
51. The nucleic acid molecule of claim 50, wherein said phosphate backbone modification is a phosphorothioate or phosphorodithioate modification.
- 20 52. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises an RNase H activating region and a non-RNase H activating region.
53. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a 5'-end modification, a 3'-end modification or both a 5'-end and a 3' -end modification.
- 25 54. The antisense nucleic acid molecule of claim 53, wherein said 3'- end modification is selected from the group consisting of 3'-3' inverted abasic moiety, 3'-3' inverted nucleotide moiety, and phosphate backbone modification.
- 30 55. The antisense nucleic acid molecule of claim 53, wherein said 5'-end modification is selected from the group consisting of 5',5'-inverted abasic

moiety, 5'-5' inverted nucleotide moiety, and phosphate backbone modification.

56. A method of cleaving WNV RNA comprising contacting the enzymatic nucleic acid molecule of claim 2 or claim 29 with said RNA under conditions suitable for the cleavage of said RNA.
57. The method of claim 56, wherein said cleavage is carried out in the presence of a divalent cation.
58. The method of claim 57, wherein said divalent cation is Mg^{2+} .
59. An expression vector comprising nucleic acid sequence encoding at least one nucleic acid molecule of claim 1, in a manner that allows expression of that nucleic acid molecule.
60. The expression vector of claim 59, wherein said nucleic acid molecule is an enzymatic nucleic acid molecule.
61. The expression vector of claim 59, wherein said expression vector further comprises a sequence for an antisense nucleic acid molecule complementary to the RNA of WNV genome.
62. The expression vector of claim 59, wherein said expression vector comprises sequence encoding at least two said nucleic acid molecules that can be same or different.
63. The expression vector of claim 62, wherein one said nucleic acid molecule comprises sequence encoding at least one antisense nucleic acid molecule complementary to RNA derived from the WNV.
64. The expression vector of claim 62, wherein one said nucleic acid molecule comprises at least one sequence encoding an enzymatic nucleic acid molecule complementary to RNA derived from the WNV.
65. A pharmaceutical composition comprising the nucleic acid molecule of claim 1 in a pharmaceutically acceptable carrier.
66. A kit for the treatment of patients infected with WNV comprising the nucleic acid molecule of claim 1.

67. A kit for detecting WNV in a system comprising the nucleic acid molecule of claim 1.
68. A method of administering to a cell the nucleic acid molecule of claim 1 comprising contacting said cell with the nucleic acid molecule under conditions suitable for said administration.
- 5 69. The method of claim 68, wherein said cell is a mammalian cell.
70. The method of claim 69, wherein said cell is a human cell.
71. The method of claim 68, wherein said administration is in the presence of a delivery reagent.
- 10 72. The method of claim 71, wherein said delivery reagent is a lipid.
73. The method of claim 72, wherein said lipid is a cationic lipid.
74. The method of claim 72, wherein said lipid is a phospholipid.
75. The method of claim 71, wherein said delivery reagent is a liposome.

U,C = 2'-NH₂-U,C
Lower case = 2'-O-Me
Uppercase = Ribo

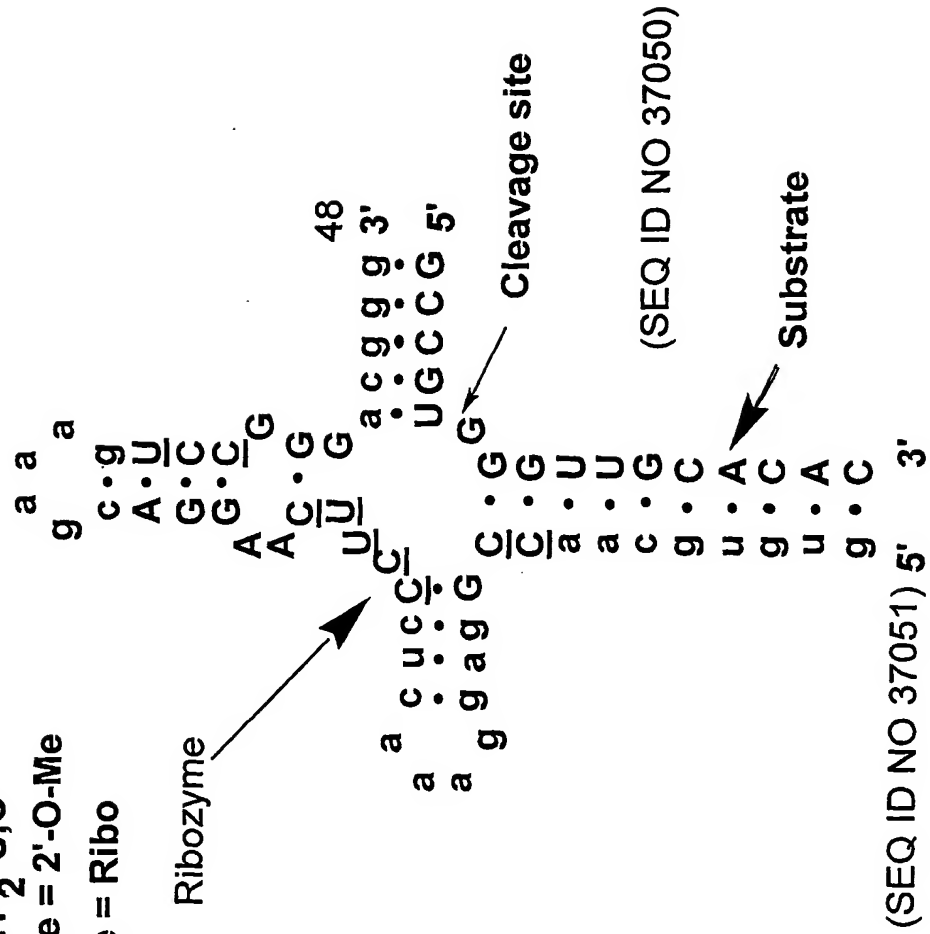


Figure 3: Stabilized Zinzyme Ribozyme Motif

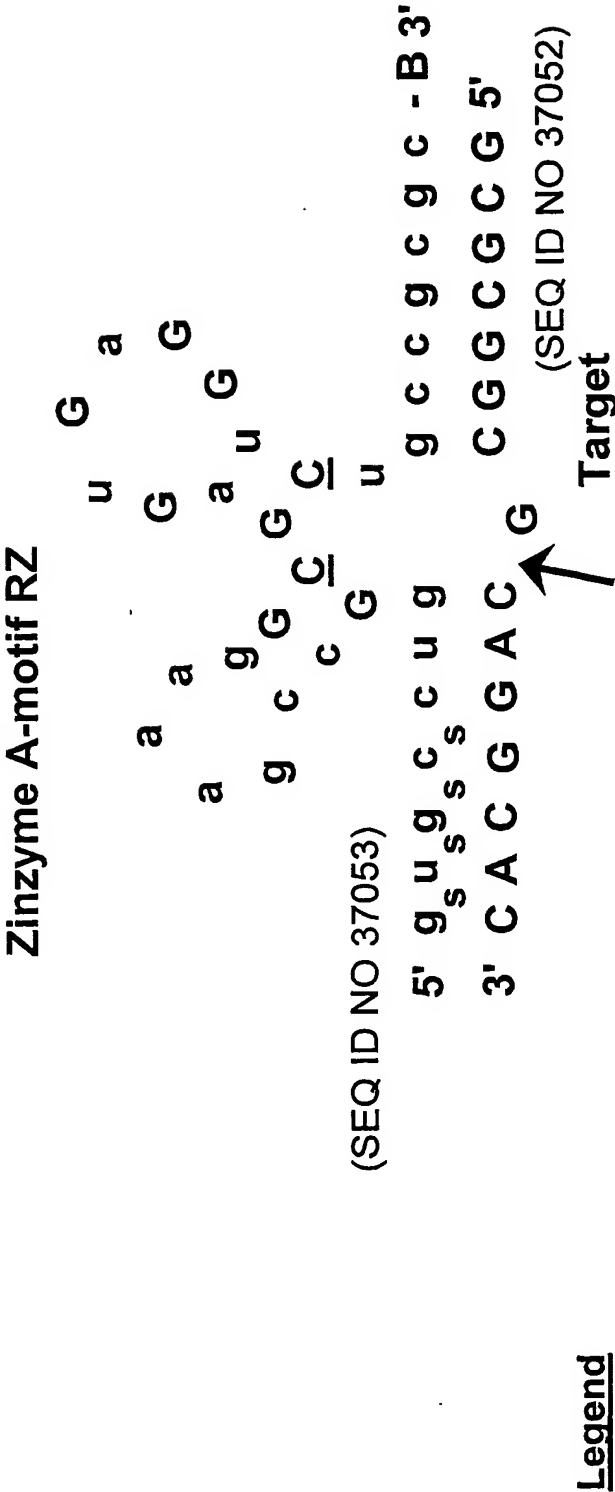


Figure 4: DNAzyme Motif

